

# Contents

<b>1</b>	<b>p53 and Hereditary Cancer.....</b>	<b>1</b>
	Diana Merino and David Malkin	
<b>2</b>	<b>Alterations of p63 and p73 in Human Cancers.....</b>	<b>17</b>
	Kazushi Inoue and Elizabeth A. Fry	
<b>3</b>	<b>Cooperation of p53 Mutations with Other Oncogenic Alterations in Cancer.....</b>	<b>41</b>
	Javier E. Girardini, Dawid Walerych, and Giannino Del Sal	
<b>4</b>	<b>p53: Its Mutations and Their Impact on Transcription .....</b>	<b>71</b>
	Catherine Vaughan, Isabella Pearsall, Andrew Yeudall, Swati Palit Deb, and Sumitra Deb	
<b>5</b>	<b>Transcriptional Regulation by Mutant p53 and Oncogenesis .....</b>	<b>91</b>
	Raffaella Santoro, Sabrina Strano, and Giovanni Blandino	
<b>6</b>	<b>p53 Mutation in the Genesis of Metastasis .....</b>	<b>105</b>
	W.A. Yeudall	
<b>7</b>	<b>Structural Studies on Mechanisms to Activate Mutant p53 .....</b>	<b>119</b>
	Hector Viadiu, Gilberto Fronza, and Alberto Inga	
<b>8</b>	<b>Mutant p53 and the Response to Chemotherapy and Radiation .....</b>	<b>133</b>
	Leila Tchelebi, Hani Ashamalla, and Paul R. Graves	
<b>9</b>	<b>The p53-Mdm2 Loop: A Critical Juncture of Stress Response .....</b>	<b>161</b>
	Yaara Levav-Cohen, Zehavit Goldberg, Kah Hin Tan, Osnat Alsheich-Bartok, Valentina Zuckerman, Sue Haupt, and Ygal Haupt	
<b>10</b>	<b>Mechanisms of Mutant p53 Stabilization in Cancer .....</b>	<b>187</b>
	Rebecca A. Frum and Steven R. Grossman	

<b>11</b>	<b>Crosstalk Between Mdm2, p53 and HIF1-<math>\alpha</math>: Distinct Responses to Oxygen Stress and Implications for Tumour Hypoxia .....</b>	<b>199</b>
	E. Douglas Robertson, Kostyantyn Semchenko, and Bohdan Wasylyk	
<b>12</b>	<b>MDM2 Overexpression, Activation of Signaling Networks, and Cell Proliferation .....</b>	<b>215</b>
	Swati Palit Deb, Shilpa Singh, and Sumitra Deb	
<b>13</b>	<b>p53-Independent Effects of Mdm2 .....</b>	<b>235</b>
	Stephen Bohlman and James J. Manfredi	
<b>14</b>	<b>Splice Variants of MDM2 in Oncogenesis .....</b>	<b>247</b>
	Melissa Rosso, Danielle E. Okoro, and Jill Bargonetti	
<b>15</b>	<b>Mdm2 and MdmX Involvement in Human Cancer .....</b>	<b>263</b>
	Steven J. Berberich	
<b>16</b>	<b>Targeting p53-MDM2-MDMX Loop for Cancer Therapy .....</b>	<b>281</b>
	Qi Zhang, Shelya X. Zeng, and Hua Lu	
<b>17</b>	<b>Involvement of p53 in the Repair of DNA Double Strand Breaks: Multifaceted Roles of p53 in Homologous Recombination Repair (HRR) and Non-Homologous End Joining (NHEJ) .....</b>	<b>321</b>
	Vijay Menon and Lawrence Povirk	
<b>18</b>	<b>The Role of Tumor Suppressor p53 in the Antioxidant Defense and Metabolism .....</b>	<b>337</b>
	Andrei V. Budanov	
<b>19</b>	<b>Lung Cancer Stem Cells, p53 Mutations and MDM2 .....</b>	<b>359</b>
	Venkat Sundar Gadepalli, Swati Palit Deb, Sumitra Deb, and Raj R. Rao	
	<b>Index .....</b>	<b>371</b>

Mutant p53 and MDM2 in Cancer

Deb, S.P.; Deb, S. (Eds.)

2014, VIII, 373 p. 38 illus., 36 illus. in color., Hardcover

ISBN: 978-94-017-9210-3