

5 Literaturverzeichnis

1. Reed JC. Mechanisms of apoptosis avoidance in cancer. *Curr Opinion Oncol.* 1999;11:68-75
2. Kerr JFR, Wyllie AH, Currie AR. Apoptosis: a basic biological phenomenon with wide-ranging implications in tissue kinetics. *Br J Cancer.* 1972;26:239-306
3. Wyllie AH, Kerr JFR, Currie AR. Cell death, the significance of apoptosis. *Intl Review Cytol.* 1980;68:251-306
4. Earnshaw WC, Martins LM, Kaufmann SH. Mammalian caspases: Structure, activation, substrates and functions during apoptosis. *Ann Review Biochem.* 1999;68:383-424
5. Tamm I, Schriever F, Dörken B. Apoptosis: implications of basic research for clinical oncology. *Lancet Oncol.* 2001;2:33-42
6. Bergmann A, Agapite J, Steller H. Mechanisms and control of programmed cell death in invertebrates. *Oncogene.* 1998;17:3215-3223
7. Horvitz HR. Genetic control of programmed cell death in the nematode *Caenorhabditis elegans*. *Cancer Res.* 1999;59 (Suppl.):1701s-1706s
8. Zou H, Henzel WJ, Liu X, Lutschg A, Wang X. Apaf-1, a human protein homologous to *C. elegans* CED-4, participates in cytochrome c-dependent activation of caspase-3. *Cell.* 1997;90:405-413
9. Fadeel B, Orrenius S, Zhivotovsky B. Apoptosis in human disease: a new skin for the old ceremony? *Biochem Biophys Research Comm.* 1999;266:699-717
10. Strasser A. Dr. Josef Steiner cancer research prize lecture: the role of physiological cell death in neoplastic transformation and in anti-cancer therapy. *Intl J Canc.* 1999;81:505-511
11. Kroemer G, Reed JC. Mitochondrial control of cell death. *Nature Med.* 2000;6:513-519
12. Sherr CJ. The Pezcoller lecture: cancer cell cycle revisited. *Cancer Res.* 2000;60:3689-3695
13. Adams JM, Cory S. The bcl-2 protein family: arbiters of cell survival. *Science.* 1998;281:1322-1326
14. Green DR, Reed JC. Mitochondria and apoptosis. *Science.* 1998;281:1309-1312

15. Haraguchi M, Torii S, Matsuzawa S, Xie Z, Kitada S, Krajewski S, Yoshida H, Mak TW, Reed JC. Apoptotic Protease Activating Factor 1 (Apaf-1)-independent cell death suppression by bcl-2. *J Exp Med.* 2000;191:1709-1720
16. Rampino N, Yamamoto H, Ionov Y, Li Y, Sawai H, Reed JC, Perucho M. Somatic frameshift mutations in the BAX gene in colon cancers of the microsatellite mutator phenotype. *Science.* 1997;275:976-979
17. Reed JC. Regulation of apoptosis by bcl-2 family proteins and its role in cancer and chemoresistance. *Curr Opinion Oncol.* 1995;7:541-546
18. Tamm I, Dörken B, Hartmann G. Antisense therapy in oncology: new hope for an old idea? *Lancet.* 2001;358:489-497
19. Robertson LE, Plunkett W, McConnell K, Keating MJ, McDonnell TJ. Bcl-2 expression in chronic lymphocytic leukemia and its correlation with the induction of apoptosis and clinical outcome. *Leukemia.* 1996;10:456-459
20. Reed J, Meister L, Cuddy M, Geyer C, Pleasure D. Differential expression of the Bcl-2 proto-oncogene in neuroblastomas and other human neural tumors. *Cancer Res.* 1991;51:6529-6538
21. Fadeel B, Zhivotovsky B, Orrenius S. All along the watchtower: on the regulation of apoptosis regulators. *FASEB J.* 1999;13:1647-1657
22. Miyashita T, Reed JC. Tumor suppressor p53 is a direct transcriptional activator of the human bax gene. *Cell.* 1995;80:293-299
23. Thornberry N, Lazebnik Y. Caspases: enemies within. *Science.* 1998;281:1312-1316
24. Thornberry N. The caspase family of cysteine proteases. *Br Med Bull.* 1997;53:478-490
25. Deveraux Q, Reed JC. IAP family proteins--suppressors of apoptosis. *Genes & Development.* 1998;13:239-252
26. Wang J, Zheng L, Lobito A, Chan FK, Dale J, Sneller M, Yao X, Puck JM, Straus SE, Lenardo MJ. Inherited human caspase 10 mutations underlie defective lymphocyte and dendritic cell apoptosis in autoimmune lymphoproliferative syndrome type II. *Cell.* 1999;9:47-58
27. Schwartz SJ, Yamamoto H, Navarro M, Maestro M, Reventos J, Perucho M. Frameshift mutations at mononucleotide repeats in caspase-5 and other target genes in

endometrial and gastrointestinal cancer of the microsatellite mutator phenotype. *Cancer Res.* 1999;59:2995-3002

28. Joseph B, Ekedal J, Sirzen F, Lewensohn R, Zhivotovsky B. Differences in expression of pro-caspases in small cell and non-small cell lung carcinoma. *Biochem Biophys Res Commun.* 1999;263:381-387
29. Jänicke RU, Sprengart ML, Wati MR, Porter AG. Caspase-3 is required for DNA fragmentation and morphological changes associated with apoptosis. *J Biol Chem.* 1998;273:9357-9360
30. Teitz T, Wei T, Valentine MB, Vanin EF, Grenet J, Valentine VA, Behm FG, Look AT, Lahti JM, Kidd VJ. Caspase 8 is deleted or silenced preferentially in childhood neuroblastomas with amplification of MYCN. *Nature Med.* 2000;6:529-535
31. Johnson DE. Noncaspase proteases in apoptosis. *Leukemia.* 2000;14:1695-1703
32. Salvesen GS, Duckett CS. IAP proteins: blocking the road to death's door. *Nat Rev Mol Cell Biol.* 2002;3:401-410
33. Uren AG, Coulson, E.J., Vaux, D.L. Conservation of baculovirus inhibitor of apoptosis repeat proteins (BIRPs) in viruses, nematodes, vertebrates and yeasts. *Trends Biol. Sci.* 1998;23:159-162
34. Crook NE, Clem RJ, Miller LK. An apoptosis-inhibiting baculovirus gene with a zinc finger-like motif. *J. Virol.* 1993;67:2168-2174
35. Barry M, Heibein JA, Pinkoski MJ. Granzyme B short-circuits the need for caspase-8 activity during granule-mediated cytotoxic T-lymphocyte killing by directly cleaving Bid. *Mol Cell Biol.* 2000;20:3781-3794
36. Zapata JM, Takahashi R, Salvesen GS, Reed JC. Granzyme release and caspase activation in activated human T-lymphocytes. *J Biol Chem.* 1998;273:6916-6920
37. Kluck RM, Bossy-Wetzel E, Green DR. The release of cytochrome c from mitochondria: a primary site for Bcl-2 regulation of apoptosis. *Science.* 1997;275:1132-1136
38. Schimmer A. Inhibitor of apoptosis proteins: translating basic knowledge into clinical practice. *Canc Res.* 2004;64:7183-7190
39. Chang H, Yang X, Baltimore D. Dissecting Fas signaling with an altered-specificity death-domain mutant: requirement of FADD binding for apoptosis but not Jun

N-terminal kinase activation. Proc Natl Acad Sci USA. 1999;96:1252-1256

40. Stennicke H, Jürgensmeier J, Shin H, Deveraux Q, Wolf B, Yang X, Zhou Q, Ellerby H, Ellerby L, Bredesen D, Green D, Reed J, Froelich C, Salvesen G. Pro-caspase-3 is a major physiologic target of caspase-8. *J. Biol. Chem.* 1998;273:27084-27090
41. Boatright KM, Renatus M, Scott FL, Salvesen GS. A unified model for apical caspase activation. *Mol Cell.* 2003;11:529-541
42. Gross A, Yin X-M, Wang K. Caspase cleaved BID targets mitochondria and is required for cytochrome c release, while BCL-XL prevents this release but not TNF-R1/Fas death. *J Biol Chem.* 1999;274:1156-1163
43. Antwerp DJ, Martin SJ, Kafri T, Green DR, Verma IM. Suppression of TNF- α -induced apoptosis by NF- κ B. *Science.* 1996;274:787-789
44. Irmler M, Thome M, Hahne M, P. S, Hofmann K, Steiner V, Bodmer J-L, Schröter M, Burns K, Mattmann C, Rimoldi D, French LE, Tschoopp J. Inhibition of death receptor signalings by cellular FLIP. *Nature.* 1997;388:190-195
45. Kataoka T, Schroter M, Hahne M, Schneider P, Irmler M, Thome M, Froelich CJ, Tschoopp J. FLIP prevents apoptosis induced by death receptors but not by perforin/granzyme B, chemotherapeutic drugs, and gamma irradiation. *J Immunol.* 1998;161:3936-3942
46. Kataoka T, Budd RC, Holler N, Thome M, Martinon F, Irmler M, Burns K, Hahne M, Kennedy N, Kovacsics M, Tschoopp J. The caspase-8 inhibitor FLIP promotes activation of NF- κ B and Erk signaling pathways. *Curr Biol.* 2000;10:640-648
47. Verhagen AM, Coulson EJ, Vaux DL. Inhibitor of apoptosis proteins and their relatives: IAPs and other BIRPs. *Genome Biol.* 2001;21; available at: <http://genomebiology.com/2001/2/7/reviews/3009>
48. Duckett C, Nava V, Gedrich R, Clem R, Van Dongen J, Gilfillan M, Shiels H, Hardwick J, Thompson C. A conserved family of cellular genes related to the baculovirus iap gene and encoding apoptosis inhibitors. *EMBO J.* 1996;15:2685-2689
49. Deveraux Q, Takahashi R, Salvesen GS, Reed JC. X-linked IAP is a direct inhibitor of cell death proteases. *Nature.* 1997;388:300-303
50. Takahashi R, Deveraux Q, Tamm I, Welsh K, Assa-Munt N, Salvesen GS, Reed JC. A single BIR domain of XIAP sufficient for inhibiting caspases. *J Biol Chem.* 1998;273:7787-7790

51. Deveraux QL, Roy N, Stennicke HR, Van Arsdale T, Zhou Q, Srinivasula SM, Alnemri ES, Salvesen GS, Reed JC. IAPs block apoptotic events induced by caspase-8 and cytochrome c by direct inhibition of distinct caspases. *EMBO Journal*. 1998;17:2215-2223
52. Sun C, Cai D, A. G. NMR structure and mutagenesis of the inhibitor-of-apoptosis protein XIAP. *Nature*. 1999;401:818-821
53. Riedl SJ, Renatus M, Schwarzenbacher R, Zhou Q, Sun C, Fesik S, Liddington RC, Salvesen GS. Structural basis for the inhibition of caspase-3 by XIAP. *Cell*. 2001;104:791-800
54. Shiozaki EN, Chai J, Rigotti DJ. Mechanism of XIAP-mediated inhibition of caspase-9. *Mol Cell*. 2003;11:519-527
55. Rothe M, Pan M-G, Henzel WJ, Ayres TM, Goeddel DV. The TNFR2-TRAF signaling complex contains two novel proteins related to baculoviral inhibitor of apoptosis proteins. *Cell*. 1995;83:1243-1252
56. Roy N, Deveraux QL, Takashashi R, Salvesen GS, Reed JC. The c-IAP-1 and c-IAP-2 proteins are direct inhibitors of specific caspases. *EMBO Journal*. 1997;16:6914-6925
57. Dierlamm J, Baens M, Wlodarska I, Stefanova-Ouzounova M, Hernandez JM, Hossfeld DK, De Wolf-Peeters C, Hagemeijer A, Van den Berghe H, Marynen P. The apoptosis inhibitor gene API2 and a novel 18q gene, MLT, are recurrently rearranged in the t(11;18)(q21;q21) associated with mucosa-associated lymphoid tissue lymphomas. *Blood*. 1999;93:3601-3609
58. Baens M, Maes B, Steyls A, Geboes K, De Wolf-Peeters C, Marynen P. Fusion between the apoptosis inhibitor gene API2 and a novel 18q gene MLT, rearranged in the t(11;18)(q21;q21), marks half of the gastro-intestinal MALT-type lymphomas without large cell proliferation. *Blood*. 1999;94:384a
59. Richter BWM, Mir SS, Eiben LJ. Molecular cloning of ILP-2, a novel inhibitor of apoptosis protein family. *Mol Cell Biol*. 2001;21:4292-4301
60. Roy N, Mahadevan MS, McLean M, Shutler G, Yaraghi Z, Farahani R, Baird S, Besner-Johnson A, Lefebvre C, Kang X, Salih M, Aubry H, Tamai K, Guan X, Ioannou P, Crawford TO, de Jong PJ, Surh L, Ikeda J-E, Korneluk RG, MacKenzie A. The gene for neuronal apoptosis inhibitory protein is partially deleted in individuals with spinal muscular atrophy. *Cell*. 1995;80:167-178

61. Maier JK, Lahoua Z, Gendron NH. The neuronal apoptosis inhibitory protein is a direct inhibitor of caspases-3 and -7. *J. Neurosci.* 2002;22:2035-2043
62. Ambrosini G, Adida C, Altieri DC. A novel anti-apoptosis gene, survivin, expressed in cancer and lymphoma. *Nature Med.* 1997;3:917-921
63. Sarela AI, Macadam RC, Farmery SM, Markham AF, Guillou PJ. Expression of the antiapoptosis gene, survivin, predicts death from recurrent colorectal carcinoma. *Gut.* 2000;46:645-650
64. Kawasaki H, Altieri DC, Lu CD, Toyoda M, Tenjo T, Tanigawa N. Inhibition of apoptosis by survivin predicts shorter survival rates in colorectal cancer. *Cancer Res.* 1998;58:5071-5074
65. Lu CD, Altieri DC, Tanigawa N. Expression of a novel antiapoptosis gene, survivin, correlated with tumor cell apoptosis and p53 accumulation in gastric carcinomas. *Cancer Res.* 1998;58:1808-1812
66. Monzo M, Rosell R, Felip E, Astudillo J, Sanchez JJ, Maestre J, Martin C, Font A, Barnadas A, Abad A. A novel anti-apoptosis gene: Re-expression of survivin messenger RNA as a prognosis marker in non-small-cell lung cancers. *J Clin Oncol.* 1999;17:2100-2104
67. Swana HS, Grossman D, Anthony JN, Weiss RM, Altieri DC. Tumor content of the antiapoptosis molecule survivin and recurrence of bladder cancer. *N Engl J Med.* 1999;341:452-453
68. Adida C, Haioun C, Gaulard P, Lepage E, Morel P, Briere J, Dombret H, Reyes F, Diebold J, Gisselbrecht C, Salles G, Altieri DC, Molina TJ. Prognostic significance of survivin expression in diffuse large B-cell lymphomas. *Blood.* 2000;96:1921-1925
69. Tamm I, Richter S, Oltersdorf D, Creutzig U, Harbott J, Scholz F, Karawajew L, Ludwig W-D, Wuchter C. High expression of X-linked inhibitor of apoptosis protein and survivin correlate with poor overall survival in childhood de novo acute myeloid leukemia. *Clin Canc Res.* 2004;10:3737-3744
70. Adida C, Berrebi D, Peuchmaur M, Reyes-Mugica M, Altieri DC. Anti-apoptosis gene, survivin, and prognosis of neuroblastoma. *Lancet.* 1998;351:882-883
71. Islam A, Kageyama H, Takada N, Kawamoto T, Takayasu H, Isogai E, Ohira M, Hashiyume K, Kobayashi H, Kaneko Y, Nakagawara A. High expression of Survivin, mapped to 17q25, is significantly associated with poor prognostic factors and promotes cell survival in human neuroblastoma. *Oncogene.* 2000;19:617-623

72. Zhu ZB, Mahija SK, Lu B. Transcriptional targeting of tumors with a novel tumor-specific survivin promoter. *Canc Res.* 2004;11:256-262
73. Li F, Ambrosini G, Chu EY, Plescia J, Tognin S, Marchisio PC, Altieri DC. Control of apoptosis and mitotic spindle checkpoint by survivin. *Nature.* 1998;396:580-584
74. Suzuki A, Hayashida M, Ito T, Kawano H, Nakano T, Miura M, Akahane K, Shiraki K. Survivin initiates cell cycle entry by the competitive interaction with Cdk-4/p16INK4a and Cdk2/Cyclin E complex activation. *Oncogene.* 2000;19:3225-3234
75. Li F, Ackermann EJ, Bennett CF, Rothermel AL, Plescia J, Tognin S, Villa A, Marchisio PC, Altieri DC. Pleiotropic cell-division defects and apoptosis induced by interference with survivin function. *Nature Cell Biology.* 1999;1:461-466
76. Reed JC. Survivin' cell-separation anxiety. *Nature Cell Biol.* 1999;1:199-200
77. Marusawa H, Matsuzawa S, Welsh K, Zou H, Armstrong R, Tamm I, Reed JC. HBXIP functions as a cofactor of survivin in apoptosis suppression. *EMBO J.* 2003;22:2729-2740
78. Fraser AG, James C, Evan GI, Hengartner MO. *Caenorhabditis elegans* inhibitor of apoptosis protein (IAP) homologue BIR-1 plays a conserved role in cytokinesis. *Current Biology.* 1999;9:292-301
79. Levkau B, Garton KJ, Ferri N. XIAP induces cell-cycle arrest and activates nuclear factor-kappa B: new survival pathways disabled by caspase-mediated cleavage during apoptosis of human endothelial cells. *Circ Res.* 2001;88:282-290
80. Jordan BW, Dinev D, LeMellay V. Neurotrophin receptor-interacting mage homologue is an inducible inhibitor of apoptosis protein-interacting protein that augments cell death. *J Biol Chem.* 2001;276:39985-39989
81. Sanna MG, de Silva Correia J, Ducrey O. IAP suppression of apoptosis involves distinct mechanism: the TAK1/JNK1 signaling cascade and caspse inhibition. *Mol Cell Biol.* 2002;22:1754-1766
82. Hofer-Warbinek R, Schmid JA, Stehlik C. Activation of NF- κ B by XIAP, the X chromosome-linked inhibitor of apoptosis, in endothelial cells involves TAK1. *J Biol Chem.* 2000;275:22064-22068
83. Claveria C, Caminero E, Martinez AC, Campuzano S, Torres M. GH3, a novel proapoptotic domain in Drosophila Grim, promotes a mitochondrial death pathway. *EMBO J.* 2002;21:3327-3336

84. Srinivasula SM, Datta P, Kobayashi M. Sickle, a novel *Drosophila* death gene in the reaper/hid/grim region, encodes an IAP-inhibitory protein. *Curr Biol.* 2002;12:125-130
85. Verhagen AM, Ekert PG, Pakusch M, Silke J, Connolly LM, Reid GE, Moritz RL, Simpson RJ, Vaux DL. Identification of DIABLO, a mammalian protein that promotes apoptosis by binding to and antagonizing IAP proteins. *Cell.* 2000;102:43-53
86. Verhagen AM, Silke J, Ekert PG. HtrA1 promotes cell death through its serine protease activity and its ability to antagonize inhibitor of apoptosis proteins. *J Biol Chem.* 2002;277:445-454
87. Arnt CR, Chiorean MV, Heldebrant MP, Gores GJ, Kaufmann SH. Synthetic Smac/DIABLO peptides enhance the effects of chemotherapeutic agents by binding XIAP and cIAP1 in situ. *J Biol Chem.* 2002;277:44236-44243
88. Liu Z, Sun C, Olejniczak ET. Structural basis for binding of Smac/DIABLO to the XIAP BIR3 domain. *Nature.* 2000;408:1004-1008
89. Yang L, Mashima T, Sato S. Predominant suppression of apoptosome by inhibitor of apoptosis protein in non-small cell lung cancer H460 cells: therapeutic effect of a novel polyarginine-conjugated Smac peptide. *Canc Res.* 2003;63:831-837
90. Fulda S, Wick W, Weller M, Debatin K-M. Smac agonists sensitize for Apo2L/TRAIL-induced or anticancer drug-induced apoptosis and induce regression of malignant glioma in vivo. *Nat Med.* 2002;8:808-815
91. Srinivasula SM, Hegde R, Saleh A. A conserved XIAP-interacting motif in caspase-9 and Smac/DIABLO regulates caspase activity and apoptosis. *Nature.* 2001;410:112-116
92. Li W, Srinivasula SM, Chai J. Structural insights into the pro-apoptotic function of mitochondrial serine protease HtrA2/Omi. *Nat Struct Biol.* 2002;9:436-441
93. Yang QH, Church-Hadjduk R, Ren J, Newton ML, Du C. Omi/HtrA2 catalytic cleavage of inhibitor of apoptosis (IAP) irreversibly inactivates IAPs and facilitates caspase activity in apoptosis. *Genes Dev.* 2003;17:1487-1496
94. Liston P, Fong WG, Kelly NL. Identification of XAF1 as an antagonist of XIAP anti-caspase activity. *Nat Cell Biol.* 2001;3:128-133
95. Tamm I, Wang Y, Sausville E, Scudiero DA, Vigna N, Oltersdorf T, Reed JC. IAP-family protein survivin inhibits caspase activity and apoptosis induced by Fas (CD95), Bax, caspases, and anticancer drugs. *Cancer Res.* 1998;58:5315-5320

96. Melegari M, Scaglioni PP, Wands JR. Cloning and characterization of a novel hepatitis B virus x binding protein that inhibits viral replication. *J Virol.* 1998;72:1737-1743
97. Tamm I, Kornblau SM, Segall H, Krajewski S, Welsh K, Scudiero DA, Tudor G, Myers T, Qui YH, Monks A, Sausville E, Andreeff M, Reed JC. Expression and prognostic significance of IAP-family genes in human cancers and myeloid leukemias. *Clin Cancer Res.* 2000;6:1796-1803
98. Tamm I, Richter S, Scholz F, Schmelz K, Oltersdorf D, Karawajew L, Schoch C, Haferlach T, Ludwig W-D, Wuchter C. XIAP expression correlates with monocytic differentiation in adult de novo AML: impact on prognosis. *The Hematology Journal.* 2004;5:489-495
99. Miranda MB, Dyer KF, Grandis JR, Johnson DE. Differential activation of apoptosis regulatory pathways during monocytic vs granulocytic differentiation: a requirement for Bcl-XL and XIAP in the prolonged survival of monocytic cells. *Leukemia.* 2003;17:390-400
100. Tamm I, Trepel M, Cardo-Vila M, Sun Y, Welsh K, Cabezas E, Swatterthwait A, Arap W, Reed JC, Pasqualini R. Peptides targeting Caspase inhibitors. *J Biol Chem.* 2003;278:14401-14405
101. Olie RA, Simoes-Wüst AP, Baumann B, Leech SH, Fabbro D, Stahel RA, Zangemeister-Wittke U. A novel antisense oligonucleotide targeting survivin expression induces apoptosis and sensitizes lung cancer cells to chemotherapy. *Cancer Res.* 2000;6:2805-2809
102. Xia C, Xu Z, Yuan X. Induction of apoptosis in mesothelioma cells by antisurvivin oligonucleotides. *Mol Cancer Ther.* 2002;1:687-694
103. Kanwar JR, Shen WP, Kanwar RK, Berg RW, Krissansen GW. Effects of survivin antagonists on growth of established tumors and B7-1 immunogene therapy. *J Natl Cancer Inst.* 2001;93:1541-1552
104. Tu SP, Jiang XH, Lin MC. Suppression of survivin expression inhibits in vivo tumorigenicity and angiogenesis in gastric cancer. *Canc Res.* 2003;63:7724-7732
105. Mesri M, Wall NR, Li J, Kim RW, Altieri DC. Cancer gene therapy using a survivin mutant adenovirus. *J Clin Invest.* 2001;108:981-990
106. Holcik M, Yeh C, Korneluk RG, Chow T. Translational upregulation of X-linked inhibitor of apoptosis (XIAP) increases resistance to radiation induced cell death. *Oncogene.* 2000;19:4174-4177

107. Bilim V, Kasahara T, Hara N, Takahashi K, Tomita Y. Role of XIAP in the malignant phenotype of transitional cell cancer (TCC) and therapeutic activity of XIAP antisense oligonucleotides against multidrug-resistance TCC in vitro. *Int J Cancer.* 2003;103:29-37
108. Hu Y, Cherton-Horvat G, Dragowska V. Antisense oligonucleotides targeting XIAP induce apoptosis and enhance chemotherapeutic activity against human lung cancer cells in vitro and in vivo. *Clin Canc Res.* 2003;9:2826-2836
109. Du C, Fang M, Li Y, Li L, Wang X. Smac, a mitochondrial protein that promotes cytochrome c-dependent caspase activation by eliminating IAP inhibition. *Cell.* 2000;102:33-42
110. Wu TY, Wagner KW, Bursulaya B, Schultz PG, Deveraux QL. Development and characterization of nonpeptidic small molecule inhibitors of the XIAP/caspase-3 interaction. *J Biol Chem.* 2003;10:759-767
111. Schimmer AD, Welsh K, Pinilla C. Small-molecule antagonists of apoptosis suppressor XIAP exhibit broad antitumor activity. *Cancer Cell.* 2004;5:25-35
112. Schimmer AD, Pedersen IM, Kitada S, Eksioglu-Demiralp E, Minden MD, Pinto R, Mah K, Andreeff M, Kim Y, Suh WS, Reed JC. Functional blocks in caspase activation pathways are common in leukemia and predict patient response to induction chemotherapy. *Canc Res.* 2003;63:1242-1248
113. Tamm I, Schumacher A, Karawajew L, Ruppert V, Arnold W, Nüssler AK, Neuhaus P, Dörken B, Wolff G. Adenovirus-mediated gene transfer of p16INK4/CDKN2 into bax-negative colon cancer cells induces apoptosis and tumor regression in vivo. *Canc Gene Ther.* 2002;9:641-650