8. Literatur

1. Cooper, G.M. (1997) *The cell: a molecular approach*; Oxford University Press: pp. 592 – 597
2. Hengartner, M.O. & Horvitz, H.R. (1994) *Curr. Opin. Genet. Dev.* (4) pp. 581 – 586: Programmed cell death in *Caenorhabditis elegans*
3. Golstein, P. (1997) *Science* (275) pp. 1081 – 1082: Controlling Cell death
4. Nicholson, D.W. & Thornberry, N.A. (1997) *TIBS* (22) pp. 299 – 306: Caspases: Killer Proteases
5. Ashkenazi, A. & Dixit, V.M. (1998) *Science* (281) pp. 1305 – 1308: Death receptors: Signalling and modulation
6. Green, D.R. & Reed, J.C. (1998) *Science* (281) pp. 1309 – 1312: Mitochondria and Apoptosis
7. Duan, H., Orth, K., Chinaiyan, A.M., Poirier, G.G., Froelich, C.J., He, W.W. & Dixit, V.M. (1996) *J. Biol. Chem.* (28) pp. 16720 – 16724: ICE-LAP6, a Novel Member of the ICE/Ced-3 Gene Family, Is Activated by the Cytotoxic T Cell Protease Granzyme B.
8. Janeway, C.A. & Travers, P. (1995) Immunologie
9. Evan,G. & Littlewood, T. (1998) *Science* (281) pp. 1317 – 1321: A Matter of Life and Cell Death
10. Adams, J.M. & Cory, S. (1998) *Science* (281) pp. 1322 – 1326: The Bcl-2 Protein Family: Arbiters of Cell Survival
11. Tsujimoto, Y. & Croce C.M. (1986) *Proc. Natl. Acad. Sci. U.S.A.* (83) pp. 5214 – 5218: Analysis of the structure, transcripts, and protein products of *bcl-2*, the gene involved in human follicular lymphoma
12. Jürgensmeier, J.M., Xie, Z., Deveraux, Q., Ellerby, L., Bredesen, D. & Reed, J.C. (1998) *Proc. Natl. Acad. Sci. U.S.A.* (95) pp. 4997 – 5002: Bax directly induces release of cytochrome c from isolated mitochondria
13. Saleh, A., Srinivasula, S.M., Acharya, S., Fishel, R.& Alnemri, E.S. (1999) (274(25)) pp 17941 – 17945: Cytochrome c and dATP-mediated oligomerization of apaf-1 is a prerequisite for procaspase-9 activation
14. Boise,L.H., Gonzalez-Garcia,M., Postema,C.E., Ding,L., Lindsten,T., Turka,L.A., Mao,X., Nunez,G. & Thompson,C.B. (1993) *Cell* (74 (4))pp. 597 – 608: *bcl-x*, a *bcl–2*-related gene that functions as a dominant regulator of apoptotic cell death
15. Li, F., Srinivasan, A., Wang, Y., Armstrong, R.C., Tomaselli, K.J. & Fritz, L.C. (1997) *J. Biol. Chem.* (272 (48)) pp. 30299 – 30305: Cell-specific Induction of Apoptosis by Microinjection of Cytochrome c; Bcl-x_L has Activity Independent of Cytochrome c
16. Boise, L.H. & Thompson, C.B. (1997) *Proc. Natl. Acad. Sci. U.S.A.* (94) pp. 3759 – 3764: Bcl-x_L can inhibit apoptosis in cells that have undergone Fas-induced protease activation
17. Yang., J., Liu, X., Bhalla, K., Kim, C.N., Ibrado, A.M., Cai, J., Peng, T-I., Jones, D.P. & Wang, X. (1997) *Science* (275) pp 1129 – 1132: Prevention of Apoptosis by Bcl-2: Release of Cytochrome c from Mitochondria Blocked
18. Kluck, R.M., Bossy-Wetzel, E., Green, D.R. & Newmeyer, D.D. (1997) *Science* (275) pp 1132 – 1136: The Release of Cytochrome c from Mitochondria: A Primary Site for Bcl-2 Regulation of Apoptosis

19. Kharbanda, S., Pandey, P., Schofield, L., Israels, S., Roncinske, R., Yoshida, K., Bharti, A., Yuan, Z-M., Saxena, S., Weichselbaum, R., Nalin, C. & Kufe, D. (1997) *Proc. Natl. Acad. Sci. U.S.A.* (94) pp. 6939 – 6942: Role for Bcl-x_L as an inhibitor of cytosolic cytochrome c accumulation in DNA-damage induced apoptosis

20. Pena, J.C., Thompson, C.B., Recant, W., Vokes, E.E. & Rudin, C.M. (1999) *Cancer* (85(1))pp. 164 – 170: Bcl-x_L and Bcl-2 expression in squamous cell carcinoma of the head and neck.

21. Olopade, O.I., Adeyanju, M.O., Safa, A.R., Hagos, F., Mick, R., Thompson, C.B. & Recant, W.M. (1997) *Cancer J Sci Am* (3(4)) pp. 230 – 237: Overexpression of Bcl-x protein in primary breast cancer is associated with high tumor grade and nodal metastases.

22. Foreman, K.E., Wrone-Smith, T., Boise, L.H., Thompson, C.B., Polverini, P.J., Simonian, P.L., Nuñez, G. & Nickoloff, B.J. (1996) *Am J Pathol* (149(3)) pp. 795 – 803: Kaposi's sarcoma tumor cells preferentially express Bcl-x_L

23. Nagane, M., Levitzky, A., Gazit, A., Cavenee, W.B. & Huang, H.-J.S. (1998) *Proc. Natl. Acad. Sci. U.S.A.* (95) pp. 5724 – 5729: Drug resistance of human glioblastoma cells conferred by a tumor-specific mutant epidermal growth factor receptor through modulation of Bcl-x_L and caspase-3-like proteases

24. Ibrado, A.M., Huang, Y., Fang, G., Liu, L. & Bhalla, K. (1996) *Cancer Res.* (56) pp. 4743 – 4748: Overexpression of Bcl-2 or Bcl-x_L Inhibits Ara-C-induced CPP32/YAMA Protease Activity and Apoptosis of Human Acute Myelogenous Leukemia HL-60 Cells

25. Schmitt, E., Cimoli, G., Steyaert, A. & Bertrand, R. (1998) *Exp. Cell. Res.* (240) pp. 107 – 121: Bcl-x_L Modulates Apoptosis Induced by Anticancer Drugs and Delays DEVDase and DNA Fragmentation-Promoting Activities

26. Minn, A.J., Rudin, C.M., Boise, L.H. & Thompson, C.B. (1995) *Blood* (86 (5)): pp. 1903 – 1910: Expression of Bcl-x_L can confer a multidrug resistance phenotype

27. Datta, R., Manome, Y., Taneja, N., Boise, L.H., Weichselbaum, R., Thompson, C.B., Slapak, C.A. & Kufe, D. (1995) *Cell Growth Differ* (6(4)) pp. 363 – 370: Overexpression of Bcl-x_L by cytotoxic drug exposure confers resistance to ionizing radiation-induced internucleosomal DNA fragmentation.

28. Kuhl, J.S., Krajewski, S., Duran, G.E., Reed, J.C. & Sikic, B.I. (1997) *Br. J. Cancer* (75(2)) pp. 268 –274: Spontaneous overexpression of the long form of the Bcl-X protein in a highly resistant P388 leukaemia.

29. Kojima, H., Endo, K., Moriyama, H., Tanaka, Y., Alnemri, E.S., Slapak, C.A., Teicher, B., Kufe, D. & Data, R. (1998) J. BIOL. CHEM. (273(27)) pp. 16647 – 16650: Abrogation of Mitochondrial Cytochrome c Release and Caspase-3-Activation in Acquired Multidrug Resistance

30. Gualberto, A., Aldape, K., Kozakiewicz, K & Tlsty, D. (1998) *Proc. Natl. Acad. Sci. U.S.A.* (95) pp. 5166 – 5171: An oncogenic form of p53 confers a dominant, gain-of-function phenotype that disrupts spindle checkpoint control

31. Lane, D.P. & Hall, P.A. (1997) *TIBS* (22) pp. 372 – 372: MDM2 – arbiter of p53‘s destruction

32. Miki, Y., Swensen, J., Shattuck-Eidens, D., Futreal, P.A., Harsham, K. & Tavgian, S. (1994) *Science* (266) pp. 66 – 71: A strong candidate for the breast and ovarian cancer gene susceptibility gene BRCA1

33. Chinnadurai, G. (1998) *Seminars in VIROLOGY* (8) pp. 399 – 408: Control of Apoptosis by Human Adenovirus Genes

34. Harrington, E.A., Bruce, J.L. Harlow, E. & Dyson, N. (1998) *Proc. Natl. Acad. Sci. U.S.A.* (95; 20) pp. 11945 – 11950: pRB plays an essential role in cell cycle arrest induced by DNA damage

35. Lozano, G. & Hulboy, D.L. (1998) *Methods: A Companion to Methods in Enzymology* (8) pp. 215 – 224: Transcriptional Regulation by Tumor Suppressor Genes

36. El-Deiry, W.S. (1998) *Seminars in CANCER BIOLOGY* (8) pp. 345 – 357: Regulation of p53 downstream genes

37. Miyashita, T. & Reed, J.C. (1995) *Cell* (80) pp. 293 – 299: Tumor Suppressor p53 Is a Direct Transcriptional Activator of the Human *bax* Gene

38. White, E. (1998) *Seminars in VIROLOGY* (8) pp. 505 – 513: Regulation of Apoptosis by Adenovirus E1A and E1B Oncogenes

39. Zhang, H., Somasundaram, K., Peng, Y., Tian, H., Bi, D., Weber, B.L. & El-Deiry, W.S. (1998) *Oncogene* (16; 13) pp. 1713 – 1721: BRCA1 physically associates with p53 and stimulates its transcriptional activity

40. Irminger-Finger, I., Siegel, B.D. & Leung, W.-C. (1999) *Biol. Chem.* (380) pp. 117 – 128: The Functions of Breast Cancer Susceptibility Gene 1 (*BRCA1*) Product and Its Associated Proteins

41. Ouchi, T., Monteiro, A.N., August, A., Aaronson, S.A. & Hanafusa, H. (1998) *Proc. Natl. Acad. Sci. U.S.A.* (95;5) pp. 2302 – 2306: BRCA1 regulates p53-dependent gene expression

42. Hsieh, J.K., Chan, F.S., O'Connor, D.J., Mittnacht, S. Zhong, S. & Lu, X. (1999) Mol. Cell. (2) pp. 181 – 193: RB regulates the stability and the apoptotic function of p53 via Mdm2

43. Grand, R.J.A., Gash, L., Milner, A.M., Molloy, D.P., Szestak, T., Turnell, A.S. & Gallimore, P.H. (1998) *Virology* (244) pp. 230 – 240: Regeneration of the binding properties of Adenovirus 12 Early Region 1A proteins after preparation under denaturing conditions

44. Sollerbrandt, K. Chinnadurai, G. & Svennson, C. (1996) *Nucleic Acids Res.* (24; 13) pp. 2578 – 2584: The CtBP Binding Domain in the Adenovirus E1A Protein Controls CR1-Dependent Transactivation

45. Schaeper, U., Subramanian, T., Boyd, J.M. & Chinnadurai, G. (1998) *J. Biol. Chem.* (273; 15) pp. 8549 – 8552: Interaction between a cellular protein that binds to the C-terminal Region of adenovirus E1Â (CtBP) and a novel cellular protein is disrupted by E1A through a conserved PLDLS motif

46. Sundqvist, A., Sollerbrant, K. & Svensson, C. (1998) *FEBS Letters* (429) pp. 183 – 188: The carboxy-terminal region of adenovirus E1A activates transcription through targeting of a C-terminal binding protein-histone deacetylase complex

47. Nibu, Y., Zhang, H. & Levine, M. (1998) *Science* (280; 5360): pp. 101 – 104: Interaction of short-range repressors with Drosophila CtBP in the embryo

48. Poortinga, G., Watanabe, M. & Parkhurst, S.M. (1998) *EMBO J* (17; 7) pp. 2067 – 2078: Drosophila CtBP: a Hairy-interacting protein required for embryonic segmentation and hairy-mediated transcriptional repression

49. Turner, J. & Crossley, M. (1998) *EMBO J* (17; 17) pp. 5129 – 5140: Cloning and characterization of mCtBP2, a co-repressor that associates with basic Kruppel-like factor and other mammalian transcriptional regulators

50. Fusco, C., Reymond, A. & Zervos, A.S. (1998) *Genomics* (51) pp. 351 – 358: Molecular cloning and characterization of a novel Retinoblastoma-binding protein

51. Xin, Y., Leeju, C.W., Bowcock, A.M., Aronheim, A. & Baer, R. (1998) *J. Biol. Chem.* (273; 39) pp. 25388 – 25392: The C-terminal (BRCT) domains of BRCA1 interact *in vitro* with CtIP, a protein implicated in the CtBP pathway of transcriptional repression

52. Li, S., Pang-Lang, C., Subramanian, T., Chinnadurai, G. Tomlinson, G., Osborne, C.K., Sharp, Z.D. & Lee, W.H. (1999) *J. Biol. Chem.* (274; 16) pp. 1134 – 1138: Binding of CtIP to the BRCT repeats in BRCA1 involved in the transcription regulation of p21 is disrupted upon DNA damage

53. Long, E.O. (1998) *Science* (391) pp. 740 – 743: Signal sequences stop killer cells

54. Yokoyama, W.M. (1998) *Proc. Natl. Acad. Sci. U.S.A.* (95) pp. 4791 – 4794; HLA class I specifity for natural killer cell receptor CD94/NKG2A: Two for one in more ways than one

55. Lee, N., Llano, M., Carretero, M., Ishitani, A., Navarro, F., López-Botet, M. & Geraghty, D.E. (1998) *Proc. Natl. Acad. Sci. U.S.A* (95) pp. 5199 - 5204: HLA-E is the major ligand for the natural killer inhibitory receptor CD94/NKG2A

56. Braud, V.M., Allan, D.S.J., O'Callaghan, C.A., Söderström, K., D'Andrea A., Ogg, G.S., Lazetic, S., Young, N.T., Bell, J.I., Phillips, J.H. Lanier, L.L. & McMichael, A.J. (1998) *Nature* (39) pp. 795 – 799: HLA-E binds to natural killer cell receptors CD94/NKG2A, B and C

57. Howard, J.C. (1995) *Curr. Opin. Immunol.* (7) pp. 69 – 67: Supply and transport of peptides presented by class I MHC molecules

58. Lehner, P.J. & Cresswell, P. (1996) *Curr. Opin. Immunol.* (8) pp. 59 – 67: Processing and delivery of peptides by MHC class I molecules

1. Mandelboim, O., Kent, S., Davis, D.M., Wilson, S.B., Okazaki, T., Jackson, R., Hafler, D. & Strominger, J.L. (1998) *Proc. Natl. Acad. Sci. U.S.A* (95) pp. 3798 – 3803: Natural killer activating receptors trigger interferon-γ-secretion from T cells and natural killer cells

60. Gustafson, K.S. & Ginder, G.D. (1996) J. Biol. Chem. (271; 33) pp. 20035 – 20046: Interferon-γ induction of the Human Leukocyte Antigen-E is mediated through binding of a complex containing STAT1α to a distinct Interferon-γ-responsive element

61. Zamai, L., Ahmad, M., Bennett, I.M., Azzoni, L., Alnemri, E.S. & Perussia, B. (1998) *J. Exp. Med.* (188; 12) pp. 2375 – 2380: Natural killer (NK) cell-mediated cytotoxicity: differential use of TRAIL and Fas ligand by immature and mature primary human NK cells

62. Arase, H., Arase, N. & Saito, T. (1995) *J. Exp. Med.* (181; 3) pp. 1235 – 1238: Fas-mediated cytotoxicity by freshly isolated natural killer cells

63. Medvedev, A.E., Johnsen, A.C., Haux, J., Steinkjer, B., Egeberg, K., Lynch, D.H., Sundan, A. & Espevik, T. (1997) *Cytokine* (6) pp. 394 – 404: Regulation of Fas and Fas-ligand expression in NK cells by cytokines and the involvement of Fas-ligand in NK/LAK cell-mediated cytotoxicity

64. Villa, P., Kaufmann, S.H. & Earnshaw, W.C. (1997) *TIBS* (22) pp. 388 – 393: Caspases and caspase inhibitors

65. Scaffidi, C., Fuda, S., Srinivasan, A., Friesen, C., Li, F., Tomaselli, K.J., Debatin, K.-M., Kramer, P.H. & Peter, M.E. (1998) *EMBO J.* (17; 6) pp. 1675 – 1687: Two CD95 (APO-1/Fas) signaling pathways

66. Thornberry, N.A. & Lazebnik, Y. (1998) *Science* (281) pp. 1312 – 1316: Caspases: Enemies within

67. Slee, E.A., Harte, M.T., Kluck, R.M., Wolf, B.B., Casiano, C.A., Newmeyer, D.D., Wang, H.-G., Reed, J.C., Nicholson, D.W., Alnemri, E.S., Green, D.R. & Martin, S.J. (1999) *J. Cell Biol.* (144; 2) pp. 281 – 292: Ordering the cytochrome c-initiated caspase cascade: Hierarchical activation of caspases-2, –3, 6, -7, -8 and –10 in a caspase-9-dependent Manner

68. Hawkins, C.J. & Vaux, D.L. (1997) *Sem. Immunol.* (9) pp. 25 – 33: The role of the Bcl-2 family of apoptosis regulatory proteins in the immune system

69. Zha, J., Harada, H., Osipov, K., Jockel, J., Waksman, G. & Korsmeyer, S.J. (1997) *J. Biol. Chem.* (272; 39) pp. 24101 – 24104: BH3 Domain of BAD is required for heterodimerization with Bcl-x_L and pro-apoptotic activity

70. Ottilie, S., Diaz, J.L., Horne, W., Chang, J., Wang, Y., Wilson, G., Chang, S., Weeks, S., Fritz, L.C. & Oltersdorf, T. (1997) *J. Biol. Chem.* (272; 49) pp. 30866 – 30872: Dimerization properties of human bad

71. Diaz, J.L., Oltersdorf, T., Horne, W., McConnell, M., Wilson, G., Weeks, S., Garcia, T. & Fritz, L.C. (1997)) *J. Biol. Chem.* (272; 17) pp. 11350 – 11355: A common Binding site mediates heterodimerization and homodimerization of Bcl-2 family members

72. Oltvai, Z.N., Milliman, C.L. & Korsmeyer, S.J. (1993) *Cell* (74) pp. 609 – 619: Bcl-2 heterodimerizes in vivo with a conserved homolog, Bax, that accelerates programmed cell death

73. Yin, X.M., Oltvai, Z.N. & Korsmeyer, S.J. (1994) *Nature* (369) pp. 321 – 323: BH1 and BH2 domains of Bcl-2 are required for inhibition of apoptosis and heterodimerization with Bax

74. Muchmore, S.W., Sattler, M., Liang, H., Meadows, R.P., Harlan, J.E., Yoon, H.S., Nettesheim, D., Chang, B.S., Thompson, C.B., Wong, S.L., Ng, S.L. & Fesik, S.W. (1996) *Nature* (381; 6580) pp. 335 – 341: X-ray and NMR structure of human Bcl–x_L, an inhibitor of programmed cell death

75. Sattler, M., Liang, H., Nettesheim, D., Meadows, R.P., Harlan, J.E., Eberstadt, M., Yoon, H.S., Shuker, S.B., Chang, B.S., Minn, A.J., Thompson, C.B. & Fesik SW (1997*) Science* (275; 5302) pp. 983 – 986: Structure of Bcl-xL-Bak peptide complex: recognition between regulators of apoptosis

76. Aritomi M, Kunishima N, Inohara N, Ishibashi Y, Ohta S, Morikawa K (1997) *J. Biol. Chem.* (272; 44) pp. 27886 – 27892: Crystal structure of rat Bcl-xL. Implications for the function of the Bcl-2 protein family

77. Hsu, Y.-T. & Youle, R.J. (1997) *J. Biol. Chem.* (272; 21) pp. 13829 – 13834: Nonionic detergents induce dimerization among members of the Bcl-2 family

78. Xie, Z., Schendel, S., Matsuyama, S. & Reed, J.C. (1998) *Biochemistry* (37) pp. 6410 – 6418: Acidic pH promotes dimerization of Bcl-2 family proteins

79. Motoyama, S., Kitamura, :, Saito, S., Minamiya, Y., Suzuki, H., Saito, R., Terada, K., Ogawa, J. & Inaba, H. (1998) *Biochem. Biophys. Res. Comm.* (249) pp. 628 – 636: Bcl-2 is located predominantly in the inner membrane and crista of mitochondria in rat liver

80. González-Garcia, M., Pérez-Balestero, R., Ding, L., Duan, L., Boise, L.H., Thompson, C.B. & Núñez, G. (1994) *Development* (120) pp. 3033 – 3042: bcl-xL is the major bcl-x mRNA form expressed during murine development and its product localizes to mitochondria

81. Wolter, K.G., Hsu, Y.-T., Smith, C.L., Nechushtan, A., Xi, X.-G. & Youle, R.J. (1997) J. Cell Biol. (139; 5) pp. 1281 – 1292: Movement of Bax from the cytosol to mitochondria during apoptosis

82. Zhang, H., Heim, J. & Meyhack, B. (1998) *Biochem. Biophys. Res. Comm.* (251) pp. 454 – 459: Redistribution of bax from cytosol to membranes is induced by apoptotic stimuli and is an early step in the apoptotic pathway

83. Hsu, Y.T., Wolter, K.G. & Youle, R.G. (1997) *Proc. Natl. Acad. Sci. U.S.A.* (94) pp. 3668 – 3672: Cytosol-to-membrane redistribution of Bax and Bcl-x_L during apoptosis

84. Greenhalf, W., Stephan, C. & Chaudhuri, B. (1996) *FEBS Letters* (380) pp. 169 – 175: Role of mitochondria and C-terminal membrane anchor of Bcl-2 in Bax induced growth arrest and mortality in *Saccharomyces cerevisiae*

85. Priault, M., Camourgrand, N., Chaudhuri, B. & Manon, S. (1999) *FEBS Letters* (443) pp. 225 – 228: Role of the C-terminal domain of Bax and Bcl-x_L in their localization and function in yeast cells

86. Schlesinger, P.H., Gross, A., Yin, X.-M., Yamamoto, K., Saito, M., Waksman, G. & Korsmeyer, S.J. (1997) *Proc. Natl. Acad. Sci. U.S.A.* (94) pp. 11357 – 11362: Comparison of ion channel characteristics of proapoptotic Bax and antiapoptotic Bcl-2

87. Lam, M., Bhat, M.B., Nuñez, G., Ma, J. & Distelhorst, C.W. (1998) *J. Biol. Chem.* (273; 28) pp. 17301 – 17310: Regulation of Bcl-x_L Channel activity by calcium

88. Gross, A., Jockel, J., Wei, M.C.. & Korsmeyer, S.J. (1998) *EMBO J.* (17; 14) pp. 3979 – 3885: Enforced dimerization of Bax results in its translocation, mitochondrial dysfunction and apoptosis

89. Skulachev, V. P. (1998) *FEBS Letzt.* (423) pp. 275 – 280: Cytochrome c in the apoptotic and antioxidant cascades

90. Goping, I.S., Gross, A., Lavoie, J.N., Nguyen, M., Jemmerson, R., Roth, K., Korsmeyer, S.J. & Shore, G.C. (1998) *J. Cell Biol.* (143; 1) pp. 207 – 215: Regulated targeting of Bax to mitochondria

91. Jürgensmeier, J.M., Krajewski, S., Armstrong, R.C., Wilson, G.M., Oltersdorf, T., Fritz, L.C., Reed, J.C. & Ottilie, S. (1997) *Mol. Biol. Cell.* (2) pp. 325 – 339: Bax- and Bak-induced cell death in the fission yeast *Schizosaccharomyces pombe*

92. Asoh,S., Nishimaki, K., Nanbu-Wakao, R. & Ohta, S. (1998) *J. Biol. Chem.* (273; 18) pp. 11384 – 11391: A trace amount of the human pro-apoptotic factor bax induces bacterial death accompanied by damage of DNA

93. Tan, Y.-J., Beerheide, W. & Ting, A.E. (1999) *Biochem. Biophys. Res. Comm.* (255) pp. 334 – 339: Biophysical characterization of the oligomeric state of bax and its complex formation with Bcl-x_L

94. Elangovan, B. & Chinnadurai, G. (1997) *J. Biol. Chem.* (272; 39) pp. 24494 – 24498: Functional dissection of the pro-apoptotic protein Bik

95. Luo, X., Budihardjo, I., Zou, H., Slaughter, C. & Wang, X. (1998) *Cell* (94) pp. 481 – 490: Bid, a Bcl-2 interacting protein, mediates cytochrome c release from mitochondria in response to activation of cell surface receptors

96. Chinnaiyan, A.M., Orth, K., O'Rourke, K., Duan, H., Poirier, G.G. & Dixit, V.M. (1996) *J. Biol. Chem.* (271; 9) pp. 4573 – 4576: Molecular ordering of the cell death pathway

97. Pan, G., O'Rourke, K. & Dixit, V.M. (1998) *J. Biol. Chem.* (273; 10) pp. 5841 – 5845: Caspase-9, Bcl-x_L and Apaf-1 form a ternary complex

98. Saleh, A., Srinivasula, S.M., Acharya, S., Fishel, R. & Alnemri, E.S. (1999) *J. Biol. Chem.* (274; 25) pp. 17941 – 17945: Cytochrome c and dATP-mediated oligomerization of apaf-1 is a prerequisite for procaspase-9 activation

99. Zou, H., Li, Y., Liu, X. & Wang, X. (1999) *J. Biol. Chem.* (274; 17) pp. 11549 – 11556: An APAF-1 cytochrome c multimeric complex is a functional apoptosome that activates procaspase-9

100. Poruchynsky, M.S., Wang, E.E., Rudin, C.M., Blagosklonny, M.V. & Fojo, T. (1998) *Cancer Res.* (58) pp. 3331 – 3338: Bcl-x_L is phosphorylated in malignant cells following microtubule disruption

101. Grillot, D.A., González-García, M., Ekhterae, D., Duan, L., Inohara, N., Ohta, S., Seldin, M.F. & Nunez G. (1997) *J. Immunology* (158) pp. 4750 - 4757; Genomic Organization, Promoter Region Analysis, and Chromosome Localization of the Mouse *bcl-x* Gene

102. Debry, R.W. & Seldin, M.F. (1996) *Genomics* (33) pp. 337 - 345; Human/mouse homology relationships

103. Inohara,N., Okada, S., Kuraguchi, N., Fujiwara, M. & Ohta, S. (1994) Gen-Bank Accession Nr. D30746, The Structure of the upstream region of the human *bcl-x* gene

104. Smale, S.T. & Baltimore, D. (1992) *Cell* (57) 103 - 110 : The initiator as transcription control element

105. Fang, W., Rivard, J.J., Mueller, D.L & Behrens, T.W. (1994) *J. Immunol.* (153): 4388 – 4393; Cloning and molecular characterization of mouse-bcl-x in B and T lymphocytes

106. Seto, M., Jaeger, U., Hockett, R.D., Graninger, W., Bennett, S., Goldman, P. & Korsmeyer, S.J. (1988) *EMBO J.* (7) pp. 123 - : Alternative promoters and exons, somatic mutation and deregulation of the *bcl-2-Ig* fusion gene in lymphoma

107. Fujio, Y., Kunisada,K., Hirota, H., Yamauchi-Takihara, K. & Kishimoto,T. (1997) *J. Clin. Invest.* (99; 12) pp. 2898 – 2905: Signals through gp 130 upregulate *bcl-x* gene expression via STAT1-binding *cis*-element in cardiac myocytes

108. Weiss, M.J. & Orkin, S.H. (1995) *Proc. Natl. Acad. Sci. U.S.A.* (92) pp. 9623 - : Transcription factor GATA-1 permits survival and maturation of erythroid precursors by preventing apoptosis

109. Gregoli, P.A. & Bondurant, M.C. (1997) *Blood* (90; 2) pp. 630 – 640: The roles of Bcl-x_L and Apopain in the control of erythropoiesis by Erythropoietin

110. Motoyama, N. Wang, F., Roth, K.A., Sawa, H., Nakayama, K., Nakayama, K., Negishi, I., Senju, S., Zhang, Q., Fujii, S. & Loh, D. (1995) *Science* (267) pp. 1506 - : Massive cell death of immature hematopoietic cells and neurons in *bcl-x* deficient mice

111. Dalyot, N., Fibach, E., Ronchi, A., Rachmilewitz, E.A., Ottolenghi, S. & Oppenheim, A. (1993) *Nucleic Acids Research* (21) pp 4031 - : Erythropoietin triggers a burst of GATA-1 in normal human erythroid cells differentiating in tissue culture

112. Silva, M., Grillot, D., Benito, A., Richard, C., Nuñez, G. & Fernandez-Luna, J.L. (1996) *Blood* (88) pp. 1567: Erithropoietin can promote erythroid progenitor survival by repressing apoptosis through Bcl-xL and Bcl-2

113. Muthusamy, N., Barton, K. & Leiden, J.M. (1995) *Nature* (377) pp. 639: Defective activation and survival of T-cells lacking the Ets-1 transcription factor

114. Bories, J.C., Willerford, D.M., Grevin, L., Camus, A., Martin, P., Stehelin, D., Alt, F.W. & Borles, F.W. (1995) *Nature* (377) pp. 635: Increased T cell apoptosis and terminal B cell differentiation induced by activation of the Ets-1 proto-oncogene

115. Minn, A.J., Boise, L.H. & Thompson, C.B. (1996) *J. Biol. Chem.* (271; 11) pp. 6306 - 6312: Bcl-x_S antagonizes the protective effects of Bcl-x_L

116. González-García, M., García, I., Ding, L., O'Shea, S., Boise, L.H., Thompson, C.B. & Núñez, G. (1995) *Proc. Natl. Acad. Sci. U.S.A.* (92) pp. 4304 – 4308: bcl-x is expressed in embryonic and postnatal neural tissues and functions to prevent neuronal cell death

117. Ban, J., Eckhart, L., Weninger, W., Mildener, M. & Tschachler, E. (1998) *Biochem. Biophys. Res. Comm.* (248) pp. 147 - 152: Identification of a human cDNA encoding a novel Bcl-x isoform

118. Shiraiwa, N., Inohara, N., Okada, S., Yuzaki, M., Shoji, S.& Ohta, S. (1996) *J. Biol. Chem.* (271; 22) pp. 13258 – 13265: An additional form of rat Bcl-x, Bcl-xß, generated by an unspliced RNA, promotes apoptosis in promyeloid cells

119. Fang. W., Richardson, J.J., Mueller, D.L. & Behrens, T.W. (1994) J. Immunol. (153) pp. 4388: Cloning and molecular characterization of mouse bcl-x in B and T lymphocytes

120. Yang, .F., Weber, G.F. & Cantor, H. (1997) Immunity (7) pp. 629 – 639: A novel bcl-x isoform connected to the T cell receptor regulates apoptosis in T cells

121. Geng, G., Lane, C., Kornblau, S., Goodacre, A., Snell, V., Andreef, M. & Deisseroth, A.B. (1998) *Mol. Med.* (4; 3) pp. 158 – 164: Ratio of bcl-xshort to bcl–xlong is different in good- and poor-prognosis subsets of acute myeloid leukemia

122. Quelle, F.W., Wang, J.L., Feng, J., Wang, D., Cleveland, J.L., Ihle, J.N. & Zambetti, G.P. (1998) *Genes & Development* (12) 1099 – 1107: Cytokine rescue of p53-dependent apoptosis and cell cycle arrest is mediated by distinct Jak kinase signaling pathways

123. Amos, C.L., Woetmann, A., Nielsen, M., Geisler, C., Ødum, N., Brown, B.L. & Dobson, P.R.M. (1998) *Cytokine* (10; 9) pp. 662 – 668: The role of caspase 3 and Bcl–x_L in the action of interleukin 7 (IL-7): A survival factor in activated human T cells

124. Zhang, X., Li, L., Choe, J., Krajewski, S., Reed, J.C., Thompson, C.B. & Choi, Y.S. (1996) *Cell. Immunol.* (173) pp. 149 – 154: Up-regulation of Bcl-x_L expression protects CD40-activated human B cells from FAS-mediated apoptosis

125. Pittner, B. & Snow, E.C. (1998) *Cell. Immunol.* (186) pp. 55 – 62: Strength of signal through BCR determines the fate of cycling B cells by regulating the expression of the Bcl-2 family of survival proteins

1. Druilhe, A., Arock, M., Le Goff, L. & Pretolani, M. (1998) Am. J. Respir. Cell Mol. Biol. (18) pp. 315 – 322: Human eosinophils express Bcl-2 family proteins: Modulation of Mcl-1 expression by IFN-γ

127. Ossina, N.K., Cannas, A., Powers, V.C., Fitzpatrick, P.A., Knight, J.D., Gilbert, J.R., Shekhtman, E.M., Tomei, L.D., Umansky, S.R. & Kiefer, M.C. (1997*) J. Biol. Chem.* (272; 26) pp. 16351 – 16357: Interferon-γ modulates a p53-independent apoptotic pathway and apoptosis-related gene expression

128. Murphy, P.R. & Knee, R.S. (1994) *Mol. Endocrinol.* (8; 7) pp. 852 –985: Identification and characterization of an antisense RNA transcript (gfg) from the human basic fibroblast growth factor gene

129. Campbell, C.E., Huang, A., Gurney, A.L., Kessler, P.M., Hewitt, J.A. & Williams, B.R. (1994) *Oncogene* (9; 2) pp. 583 – 595: Antisense transcripts and protein binding motifs within the Wilms tumour (WT1) locus

130. Apel, T.W., Mautner, J., Polack, A., Bornkamm, G.W. & Eick, D. (1992) *Oncogene* (7; 7) pp. 1267 – 1271: Two antisense promoters in the immunoglobulin mu-switch region drive expression of c-myc in the Burkitt's lymphoma cell line BL67

131. Krystal, G.W., Armstrong ,B.C. & Battey, J.F. (1990) *Mol. Cell. Biol.* (10; 8) pp. 4180 – 4191: *n-myc* mRNA forms an RNA-RNA duplex with endogenous antisense transcripts

132. Khochbin, S. & Lawrence, J.J. (1989) *EMBO J.* (8; 13) pp. 4107 – 4114: An antisense RNA involved in *p53* mRNA maturation in murine erythroleukemia cells induced to differentiate

133. Volloch, V., Schweitzer, B. & Rits, S. (1996) *Proc. Natl. Acad. Sci. U.S.A.* (93) pp. 2476 – 2481: Antisense globin RNA in mouse erythroid tissues: Structure, origin, and possible function

134. Morelli, S., Delia, D., Capaccioli, S., Quattrone, A., Schiavoni, N., Bevilacqua, A., Tomasini, S. & Nicolin, A. (1997) *Proc. Natl. Acad. Sci. U.S.A.* (94) pp. 8150 – 8155: The antisense *bcl-2-IgH* transcript is an optimal target for synthetic oligonucleotides

135. Cappacioli, S. Quattrone, A. Schiavone, N., Calastretti, A., Copreni, E. Canti, G., Gong, L., Morelli, S. & Nicolin, A. (1996) *Oncogene* (12) pp. 2356 – 2367: A *bcl-2/IgH* antisense transcript deregulates *bcl-2* gene expression in human follicular lymphoma t(14;18) cell lines

136. Willis, A.E. (1999) *Int. J. Biochem. Cell Biol.* (31) pp. 73 – 86: Translational control of growth factor and proto-oncogene expression

137. Clemens, M.J. & Bomer, A.U. (1999) *Int. J. Biochem. Cell Biol.* (31): pp. 1 – 23: Translational control: The cancer connection

138. Kozak, M. (1987) *Nuc. Acids Res.* (15) pp. 8125 - 8148: An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs

139. Kozak, M. (1991) *J. Cell Biol.* (115) pp. 887 - 903: An analysis of vertebrate mRNA sequences: intimations of translational control

140. Harigari, M., Miyashita, T., Hanada, M. & Reed, J.C. (1996) *Oncogene* (12) pp. 1369 – 1374: A cis-acting element in the *bcl-2* gene controls expression through translational mechanisms

141. Jagus, R., Joshi, B. & Barber, G.N. (1999) *Int. J. Biochem. Cell Biol.* (31) 123 – 138: PKR, apoptosis ans cancer

142. Ewen, M.E. & Miller, S.J. (1996) *Biochim. Biophys. Acta* (1242) pp. 181 – 184: p53 and translational control

143. Landers, J.E., Cassel, S.L. & George, D.L. (1997) *Cancer Res.* (57) pp. 3562 – 3568: Translational enhancement of mdm2 oncogene expression in human tumor cells containing a stabilized p53 protein

144. Landers, J.E., Cassel, S.L. & George, D.L. (1997) *Cancer Res.* (557) pp. 3562 – 3568: Translational enhancement of *mdm2* oncogene expression in human tumor cells containing a stabilized wild.type p53 protein

145. Kozak, M. (1995) *Proc. Natl. Acad. Sci. U.S.A.* (92) pp. 2662 – 2666: Adherence to the first-AUG rule when a second AUG codon follows closely upon the first.

146. Seto, M., Jaeger, V., Hockett, R.D., Grainger, W., Bennet, S., Goldman, O. & Korsmeyer, S.J. (1988) *EMBO J.* (7) pp. 123 – 131: Alternative promoters and exons, somatic mutation and deregulation of the Bcl-2-Ig fusion gene in lymphoma

147. van der Velden, A.W. & Thomas, A.A.M. (1999) *Int. J. Biochem. Cell. Biol.* (31) pp. 87 – 106: The role of the 5' untranslated region of an mRNA in translation regulation during development

148. Kamoshita, N., Tsukiyama-Kohara, K., Kohara, M. & Nomoto, A. (1997) *Virology* (233) pp. 9 – 18: Genetic ananlysis of internal ribosome entry site on Hepatitis C virus RNA: Implication for involvement of the highly ordered structure and cell type-specific transacting factors

149. Jang, S.K. & Wimmer, E. (1990) *Genes Dev.* (4) pp. 1560 – 1572: Cap-independent translation of encephalomyocarditis virus RNA: structural elements of the internal ribosome entry site and involvement of a cellular 57-kD RNA-binding protein

150. Soo-Kyung, O.H., Scott, M.P. & Sarnow, P. (1992) *Genes Dev.* (6) pp. 1643 – 1653: Homeotic gene Antennapedia mRNA contains 5'-noncoding sequences that confer translational initiation by internal ribosome binding

151. Huez, I., Créncier, L., Audigier, S., Gensac, M.C., Prats, A.C. & Prats, H. (1998) *Mol. Cell. Biol.* (18; 11) pp. 6178 – 6190: Twi independent internal ribosome entry sites are involved in translation initiation of vascular endothelial growth factor mRNA

152. Vagner, S., ensac, M.C., Maret, A., Bayard, F., Almaric, F., Prats, H. & Prats, A.C. (1995) Mol. Cell Biol. (15; 1) pp. 35 – 44: Alternative translation of human *Fibroblast Growth Factor 2* mRNA occurs by internal entry of ribosomes

153. Macejak, D.G. & Sarnow, P. (1991) *Nature* (353) pp. 90 – 94: Internal initiation of translation mediated by the 5' leader of a cellular mRNA

154. Yang, Q. & Sarnow, P. (1997) *Nuc. Acids Res.* (25; 14) pp. 2800 – 2807: Location of the internal ribosome entry site in the 5' non-coding region of the immunoglobulin *heavy-chain binding protein (BiP)* mRNA: evidence for specific RNA-protein interactions

155. Bernstein, J., Sella, O., Le, S.Y. & Elroy-Stein, O. (1997) *J. Biol. Chem.* (272; 14) pp. 9356 – 9362: *PDGF2/c–sis* mRNA leader contains a differentiation linked internal ribosome entry site (D-IRES)

156. Gan, W. & Rhoads, R.E. (1996) *J. Biol. Chem.* (271; 2) pp. 623 – 626: Internal initiation of translation directed by the 5'-untranslated region of the mRNA for eIF4G, a Factor involved in the Picornavirus-induced switch from Cap-dependent to internal initiation

157. Nanbru, C., Lafon, I., Audigier, S., Gensac, M.C., Vagner, S., Huez, G. & Prats, A.C. (1997) *J. Biol. Chem.* (272; 51) pp. 32061 – 32066: Alternative translation of prot-oncogene *c-myc* by an internal ribosome entry site

158. Vagner, S., Turiol, C., Galy, B., Audigier, S., Gensac, M.C., Almaric, F., Bayard, F., Prats, H. & Prats, A.C. (1996) *J. Cell. Biol.* (135; 5) pp. 1391 – 1402: Translation of CUG- but not AUG-initiated forms of human Fibroblast Growth Factor 2 is activated in transformed and stressed cells

159. Arnaud, E., Touriol, C., Boutonnet, C., Gensac, M.C., Vagner, S., Prats, H. & Prats, A.C. (1999) *Mol. Cell. Biol.* (19; 1) pp. 505 – 514: A new 34-kilodalton isoform of human Fibroblast Growth Factor 2 is cap dependently synthesized by using a non-AUG start codon and behaves as a survival factor

160. Le, S.-Y. & Maizel Jr., J.V. (1997) *Nuc. Acids. Res.* (25; 5) pp. 362 – 369: A common RNA structural motif involved in the internal initiation of translation of cellular mRNAs

161. Gan, W., La Celle, M. & Rhoads, R.E. (1998) *J. Biol. Chem.* (273) pp. 5006 – 5012: Functional characterization of the internal ribosome entry site of *eIF4G* mRNA

162. Hellen, C.U.T., Witherell, G.W., Schmid, M., Shin, S.H., Pestova, T.V., Gil, A. & Wimmer, E. (1993) *Proc. Natl. Acad. Sci. U.S.A.* (90) pp. 7642 – 7646: A cytoplasmatic 57-kDa protein that is required for translation of picornavirus RNA by internal ribosome entry is identical to the nuclear pyrimidine tract-binding protein

163. Ali, N & Siddiqui, A. (1995) *J. Virol.* (69; 10) pp. 6367 – 6375: Interaction of polypyrimidene tract-binding protein with the 5' noncoding region of hepatitis C virus RNA genome and its functional requirement in internal translation

164. Rojas-Eisenring, I.A., Cajero-Juarez, M. & Del Angel, R.M. (1995) *J. Virol.* (69; 11) pp. 6819 – 6824: Cell proteins bind to a linear polypyrimidine-rich sequence within the 5'-untranslated region of rhinovirus 14 RNA

165. Blyn, L.B., Swiderek, K.M., Richards, O., Stahl, D.C., Semler, B.L. & Ehrenfeld, E. (1996) *Proc. Natl. Acad. Sci. U.S.A.* (93) pp. 11115 – 11120: Poly(rc) binding protein 2 binds to stem-loop IV of the poliovirus RNA 5‘ noncoding region: Identification by automated liquid chromatography-tandem mass spectrometry

166. Haler, A.A. & Semler, B.L. (1995) *Virology* (206) pp. 923 – 934: Stem-loop structure synergy in binding cellular proteins to the 5‘ noncoding region of poliovirus RNA

167. Birnboim, H.C. & Doly, J. (1979) *Nuc. Acids Res.* (7; 6) pp. 1513 – 1523: A rapid alkaline extraction procedure for screening recombinant plasmid DNA

168. Sambrook, J. Fritsch, E.F. & Maniatis, T. (1989) *Molecular cloning: A laboratory manual*; Cold Spring Harbour Laboratory, Cold Spring Harbour, NY.

169. Miller, S.A., Dykes, D.D. & Polesky, H.F. (1988) *Nuc. Acids Res.* (16): pp.1215

170. Chomczynski, P. & Sacchi, N. (1987) *Anal. Biochem.* (162) pp. 156 – 159: Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction

171. Smith, P.K., Krohn, R.I., Hermanson, G.T., Mallia, A.K., Gartner, F.H., Provenzano, M.D., Fujimoto, E.K., Goerke, N.M., Olson, B.J. & Klenk, D.C. (1985) *Anal. Biochem.* (150) pp. 76 – 85: Measurement of protein using Bicinchoninic acid

172. Feinberg A.P. & Vogelstein (1983) *Anal. Biochem.* (132) pp. 6 – 13: A technique for radiolabeling DNA restriction endonuclease fragments to high specific activity

173. Feinberg A.P. & Vogelstein (1984) *Addendum Anal. Biochem.* (137) pp. 266 – 267: A technique for radiolabeling DNA restriction endonuclease fragments to high specific activity

174. Chomczynski, P. (1992) *Anal. Biochem.* (201) pp. 134 – 139: One-hour downward capillary transfer for blotting of DNA and RNA

175. Southern, E.M. (1975) *J. Mol. Biol.* (98) pp. 503 – 517: Detection of Sequences among DNA separated by gel electrophoresis

176. Laemmli, U.K. (1970) *Nature* (227) pp. 680 – 685: Cleavage of structural proteins during the assembly of the head of the bacteriophage T4

177. Towbin, H., Staehlin, T. & Gurdon, J. (1979) *Proc. Natl. Acad. Sci. U.S.A.* (76) pp. 4322 – 4326: Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: Procedure and some applications

178. Lewin, B. (1997) *Genes VI*; Oxford University Press

179. Clontech: *Living Colours Application Manual* (1998)

180. Silva, M., Benito, A., Sanz, C., Prosper, F., Ekhterae, D., Nuñèz, G. & Fernandez-Luna, J.L. (1999*) J. Biol. Chem.* (274; 34) pp. 22165 – 22169: Erythropoietin can induce the expression of Bcl-x_L through STAT5 in erathropoietin-dependent progenitor cell lines

181. Lee, H.H., Dadgostar, H., Cheng, O., Shu, J. & Cheng G. (1999) *Proc. Natl. Acad. Sci. U.S.A.* (96) pp. 9136 – 9141: NF-kB-mediated up-regulation of Bcl–x and Bfl–1/A1 is required for CD40 survival signaling in B lymphocytes

182. Sevilla, L., Aperlo, C., Dulic, V., Chambard, J.C., Boutonnet, C., Pasquier, O., Prognonec, P. & Bouloukos, K.E. (1999) *Mol. Cell. Biol.* (19; 4) pp. 2624 – 2634: The Ets-2 transcription factor inhibits apoptosis induced by colony-stimulating factor 1 deprivation of macrophages through a Bcl-xL-dependent mechanism

183. Means, A.L. & Farnham, P.J. (1990) *Mol. Cell. Biol.* (10; 2) pp. 653 – 661: Transcription initiation from the dihydrofolate reductase promoter is positioned by HIP1 binding at the initiation site

184. Brown, D.D. & Sugimoto K. (1973) *J. Mol. Biol.* (78) pp. 397 – 415: 5S DNAs of *Xenopus laevis* and *Xenopus mulleri*: Evolution of a gene family

185. Peterson, R.C., Doering, J.L. & Brown D.D. (1980) *Cell* (20) pp. 131 - 141: Caractrization of two Xenopus somatic 5S DNAs and one Minor oocyte-specific 5S DNA

186. Mao, J., Appel, B., Schaak, J. Sharp, S. Yamada, H. & Soll, D. (1982) *Nuc. Acids Res.* (10) pp. 487 – 500: The 5S rRNA Genes of *Schizosaccharomyces pombe*

187. Burke, T.W. & Kadonaga, J.T. (1997) *Genes & Development* (11) pp. 3020 – 3031: The downstream core promoter element, DPE, is conserved from Drosophila to humans and is recognized by TAFII 60 of Drosophila

188. Minchiotti, G., Contursi, C. & Di Nocera, P.P. (1997) *J. Mol. Biol.* (267) pp. 37 – 46: Multiple downstream promoter modules regulate the transcription of the *drosophila melanogaster* I, Doc and F elements

189. Pelletier, M.R., Hatada, E.N., Scholz, G. & Scheidereit, C. (1997) *Nuc. Acids Res.* (25; 20) pp. 3995 – 4003: Efficient transcription of an immunoglobulin k promoter requires specific sequence elements overlapping with and downstream of the transcription start site

190. Van Lint, C., Amella, C.A., Emiliani, S., John, M., Jie, T. & Verdin E. (1997) *J. Virol.* (8) pp. 6613 – 6627: Transcription factor binding sites downstream of the human immunodeficiency virus type 1 transcription start site are important for virus infectivity

191. Beohar,N. & Kawamoto, S. (1998) *J. Biol. Chem.* (273; 15) pp. 9168 – 9178: Transcriptional regulation of the human nonmuscle myosin II heavy chain-A gene. Identification of three clustered cis-elements in intron-1 which modulate transcription in a cell type- and differentiation state-dependent manner

192. Clark, M.P., Chow, C.-W., Rinaldo, J.E. & Chalkley, R. (1998) *Nuc. Acids Res.* (26; 7) pp. 1801 – 1806: Correct usage of multiple transcription initiation sites and C/EBP-dependent transcription activation of the rat XDH/XO TATA-less promoter requires downstream elements located in the coding region of the gene

193. Ince, T.A. & Scotto, K.W. (1995) *J. Biol. Chem.* (270; 51) pp. 30249 – 30252: A conserved downstream element defines a new class of RNA polymerase II promoters

194. Gray, T.A., Saitoh, S. & Nicholls R.D. (1999) *Proc. Natl. Acad. Sci.* (96; 10) pp. 5616 – 5621: An imprinted, mammalian bicistronic transcript encodes two independent proteins

195. Sloan, J., Kinghorn, J.R. & Unkles, S.E. (1999) *Nuc. Acids Res.* (27; 3) pp. 854 – 858: The two subunits of human molybdopterin synthase: evidence for a bicistronic messenger RNA with overlapping reading frames

196. Stallmeyer, B., Drugeon, G., Reiss, J., Haenni, A.L. & Mendel, R.R. (1999) *Am. J. Hum. Genet.* (64; 3) pp. 698 – 705: Human molybdopterin synthase gene: identification of a bicistronic transcript with overlapping reading frames

197. Ritchie H. Wang,L.H. (1997) *Biochem. Biophys. Research Commun.* (231; 2) pp. 425 – 428: A mammalian bicistronic transcript encoding two dentin-specific proteins

198. Ritchie, H.H., Ritchie, D.G. & Wang, L.H. (1998) *Eur. J. Oral. Sci.* (106, Suppl.1) pp. 211 – 220: Six decades of dentinogenesis research. Historical and prospective views on phosphoryn and dentin sialoprotein

199. Lee, S.J. (1991) *Proc. Natl. Acad. Sci.* (88) pp 4250 - 4254: Expression of growth/differentiation factor 1 in the nervous system: Conservation of a bicistronic structure

200. Pardigol, A., Forssmann, U., Zucht, H.-D., Loetscher, P., Schulz-Knappe, P., Bagglioni, M., Forssmann, W.-G. & Mägert, H.- J. (1998) *Proc. Natl. Acad. Sci* (95) pp. 6308 – 6313: HCC-2, a human chemokine: Gene structure, expression pattern and biological activity

201. Brogna, S. & Ashburner, M. (1997) *EMBO J.* (16; 8) pp. 2023 – 2031: The Adh-related gene of *drosophila melanogaster* is expressed as a functional dicistronic messenger RNA: multigenic transcription in higher organisms

202. Andrews, J., Smith, M., Merakovsky, J., Coulson, M., Hannan, F. & Kelly L.E. (1996) *Genetics* (143; 4) pp. 1699 – 1711: The stoned locus of *drosophila melanogaster* produces a dicistronic transcript and encodes two distinct polypeptides

203. Bouhidel, K., Terzian, C. & Pinon, H. (1994) *Nuc. Acids Res.* (22; 12) pp. 2370 – 2374: The full-length transcript of the I factor , a LINE element of *drosophila melanogaster*, is a potential bicistronic RNA messenger

204. Ilves, H., Kahre, O. & Speek, M. (1992) *Mol. Cell. Biol.* (12; 9) pp. 4242 – 4248: Translation of the rat LINE bicistronic RNAs in vitro involves ribosomal reinitiation instead of frameshifting

205. Jacob, F. & Monod, J. (1961) *J. Mol. Biol.* (3) pp. 318 – 356: Genetic regulatory mechanisms in the synthesis of proteins

206. Caudevilla, C., Serra, D., Miliar, A., Codony, C., Asins, G., Bach, M & Hegardt F.G. (1998) *Proc. Natl. Acad. Sci.* (95) pp. 12185 – 12190: Natural trans-splicing in carnitine octanoyltransferase pre-mRNAs in rat liver

207. Breen, M.A. & Ashcroft, S.J. (1997) *FEBS Lett.* (409; 3) pp. 375 – 379: A truncated isoform of Ca2+/calmodulin-dependent protein kinase II expressed in human islets of Langerhans may result from trans-splicing

208. Pink, J.J., Wu, S.Q., Wolf, D.M., Bilimoria, M.M. & Jordan, V.C. (1996) *Nuc. Acids. Res.* (24; 5) pp. 962 – 969: A novel 80 kDa estrogen receptor containing a duplication of exons 6 and 7

209. Blumenthal, T. (1995) *Trends Genet.* (11; 4) pp. 132 – 136: Trans-splicing and polycistronic transcription in *Caenorhabditis elegans*

210. Bonen L. (1993) *FASEB J.* (7) pp. 40 – 46: *Trans*-splicing of pre-mRNA in plants, animals, and protists

211. Agabian, N. (1990) *Cell* (61) pp. 1157 – 1160: *Trans*-splicing of nuclear pre- mRNAs

212. Morawala-Patell, V., Gualberto, J.M., Lamattina, L., Grienenberger, J.-M. & Bonard, G. (1998) *Mol. Gen. Genet.* (258) pp. 503 – 511: *Cis*- and *trans*-splicing and RNA-editing are required for the expression of *nad2* in wheat mitochondria

213. Mataj, I.W., Tollervey, D. & Séraphin, B. (1993) *FASEB J.* (7) pp. 47 – 53: Small nuclear RNAs in messenger RNA and ribosomal RNA processing

214. Stein, I., Itin., A., Einat, P., Skaliter, R., Grossman, Z. & Keshet, E. (1998) *Mol. Cell. Biol.* (18; 6) pp. 3112 – 3119: Translation of vascular endothelial growth factor mRNA by internal ribosome entry: Implications for translation under hypoxia

215. Levy, A.P., Levy, N.S. & Goldberg, M. (1996) *J. Biol. Chem.* (271; 41) pp. 25492 – 25497: Hypoxia-inducible protein binding to vascular endothelial growth factor mRNA and its modulation by the von Hippel-Lindau protein

216. Lonergan, K.M., Iliopoulos, O., Ohh, M., Kamura, T., Conaway, R.C., Conaway, J.W. & Kaelin jr., W.G. (1998) *Mol. Cell. Biol.* (18; 2) pp. 732 – 741: Regulation of hypoxia-inducible mRNAs by the von Hippel-Lindau tumor suppressor protein requires binding to complexes containing elongins B/C and Cul2

217. Newman, A.J. (1997) *EMBO J.* (16; 19) pp. 5797 – 5800: The role of U5 snRNP in pre-mRNA splicing