

# Stanford

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## Linda Boxer, MD, PhD

Vice Dean of the School of Medicine and Stanley McCormick Memorial Professor in the School of Medicine

Medicine - Hematology

### CLINICAL OFFICES

- **Hematology Clinic**

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Lisa Joo - Executive Associate

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### Bio

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### CLINICAL FOCUS

- Cancer > Hematology
- Hematology
- Multiple Myeloma
- Multiple Myeloma - Medical Oncology
- Plasmacytoma
- Plasmacytoma - Hematology
- Plasmacytoma - Medical Oncology

### ACADEMIC APPOINTMENTS

- Professor, Medicine - Hematology
- Member, Bio-X
- Member, Stanford Cancer Institute

### ADMINISTRATIVE APPOINTMENTS

- Vice Dean, School of Medicine, (2013- present)
- Chief, Division of Hematology, Stanford University School of Medicine, (2004-2017)

## PROFESSIONAL EDUCATION

- Fellowship: Stanford University Hematology and Oncology Fellowship (1990) CA
- Fellowship: Stanford University Hematology and Oncology Fellowship (1989) CA
- Residency: Stanford University Internal Medicine Residency (1984) CA
- Internship: Stanford University Internal Medicine Residency (1982) CA
- Medical Education: Stanford University School of Medicine Registrar (1981) CA
- Board Certification: Hematology, American Board of Internal Medicine (1990)
- Board Certification: Medical Oncology, American Board of Internal Medicine (1987)
- Board Certification: Internal Medicine, American Board of Internal Medicine (1984)
- MD, Stanford University , Medicine (1981)
- PhD, Stanford University , Biophysics (1981)

## LINKS

- L. Boxer lab site: [http://hematology.stanford.edu/research/boxer\\_lab.html](http://hematology.stanford.edu/research/boxer_lab.html)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are studying the transcriptional deregulation of several oncogenes in human hematologic malignancies.

Activation of c-myc in Burkitt's lymphoma: We are examining the transcriptional deregulation of the translocated c-myc gene and the silencing of the normal c-myc gene in Burkitt's lymphoma. We are looking at the c-myc promoter and regions of the immunoglobulin locus that are responsible for the deregulation of the translocated c-myc gene. Several model systems have been designed.

Activation of bcl-2 in hematologic malignancies: In lymphomas with the t(14;18) translocation, the bcl-2 gene is translocated to the immunoglobulin locus and expressed at high levels. We are studying the mechanism of activation at a molecular level in human lymphoma tissue. We have also developed a model system to determine which region of the immunoglobulin locus is responsible for the activation of the translocated bcl-2 gene.

Expression profiling in ALL: We are examining gene expression profiles in acute lymphoblastic leukemia in response to chemotherapeutic agents.

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

## Publications

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### PUBLICATIONS

- **Clinical interpretation and implications of whole-genome sequencing.** *JAMA*  
Dewey, F. E., Grove, M. E., Pan, C., Goldstein, B. A., Bernstein, J. A., Chaib, H., Merker, J. D., Goldfeder, R. L., Enns, G. M., David, S. P., Pakdaman, N., Ormond, K. E., Caleshu, et al  
2014; 311 (10): 1035-1045
- **Clinical interpretation and implications of whole-genome sequencing.** *JAMA : the journal of the American Medical Association*

- Dewey, F. E., Grove, M. E., Pan, C., Goldstein, B. A., Bernstein, J. A., Chaib, H., Merker, J. D., Goldfeder, R. L., Enns, G. M., David, S. P., Pakdaman, N., Ormond, K. E., Caleshu, et al  
2014; 311 (10): 1035-1045
- **The immunoglobulin heavy chain gene 3' enhancers induce Bcl2 deregulation and lymphomagenesis in murine B cells** *LEUKEMIA*  
Xiang, H., Noonan, E. J., Wang, J., Duan, H., Ma, L., Michie, S., Boxer, L. M.  
2011; 25 (9): 1484-1493
  - **Functional long-range interactions of the IgH 3' enhancers with the bcl-2 promoter region in t(14;18) lymphoma cells** *ONCOGENE*  
Duan, H., Xiang, H., Ma, L., Boxer, L. M.  
2008; 27 (53): 6720-6728
  - **Protein/DNA arrays identify nitric oxide-regulated cis-element and trans-factor activities some of which govern neuroblastoma cell viability** *NUCLEIC ACIDS RESEARCH*  
Dhakshinamoorthy, S., Sridharan, S. R., Li, L., Ng, P. Y., Boxer, L. M., Porter, A. G.  
2007; 35 (16): 5439-5451
  - **The immunoglobulin heavy-chain gene 3' enhancers deregulate bcl-2 promoter usage in t(14;18) lymphoma cells** *ONCOGENE*  
Duan, H., Heckman, C. A., Boxer, L. M.  
2007; 26 (18): 2635-2641
  - **Activation of the c-myc p1 promoter in Burkitt's lymphoma by the hs3 immunoglobulin heavy-chain gene enhancer** *LEUKEMIA*  
Hu, H., Kanda, K., Zhang, L., Boxer, L. M.  
2007; 21 (4): 747-753
  - **Artificial zinc(II) complexes regulate cell cycle and apoptosis-related genes in tumor cell lines** *CHEMBIOCHEM*  
Gao, J., Liu, Y., Zhou, Y., Boxer, L. M., Woolley, F. R., Zingaro, R. A.  
2007; 8 (3): 332-340
  - **Role of the cyclic AMP response element in the bcl-2 promoter in the regulation of endogenous Bcl-2 expression and apoptosis in murine B cells** *MOLECULAR AND CELLULAR BIOLOGY*  
Xiang, H., Wang, J., Boxer, L. M.  
2006; 26 (22): 8599-8606
  - **Transcription factor gata4 regulates cardiac BCL2 gene expression in vitro and in vivo.** *FASEB journal*  
Kobayashi, S., Lackey, T., Huang, Y., Bisping, E., Pu, W. T., Boxer, L. M., Liang, Q.  
2006; 20 (6): 800-802
  - **Transcription factor GATA4 regulates cardiac BCL2 gene expression in vitro and in vivo** *FASEB JOURNAL*  
Kobayashi, S., Lackey, T., Huang, Y., Bisping, E., Pu, W. T., Boxer, L. M., Liang, Q.  
2006; 20 (2): 800-?
  - **Oct transcription factors mediate t(14;18) lymphoma cell survival by directly regulating bcl-2 expression** *ONCOGENE*  
Heckman, C. A., Duan, H., Garcia, P. B., Boxer, L. M.  
2006; 25 (6): 888-898
  - **C/EBP alpha and C/EBP alpha myeloid oncoproteins induce Bcl-2 via interaction of their basic regions with NF-kappa B p50.** *47th Annual Meeting of the American-Society-of-Hematology*  
Paz-Priel, I., Cai, D. H., Wang, D. H., Kowalski, J., Blackford, A., Liu, H. T., Heckman, C. A., Gombart, A. F., Koeffler, H. P., Boxer, L. M., Friedman, A. D.  
AMER SOC HEMATOLOGY.2005: 838A-839A
  - **The role of the cAMP-response element in the bcl-2 promoter in the regulation of endogenous bcl-2 expression and apoptosis in murine B cells.** *47th Annual Meeting of the American-Society-of-Hematology*  
Xiang, H., Boxer, L. M.  
AMER SOC HEMATOLOGY.2005: 837A-837A
  - **CCAAT/enhancer binding protein alpha (C/EBP alpha) and C/EBP alpha myeloid oncoproteins induce Bcl-2 via interaction of their basic regions with nuclear factor-kappa B p50** *MOLECULAR CANCER RESEARCH*  
Paz-Priel, I., Cai, D. H., Wang, D. H., Kowalski, J., Blackford, A., Liu, H. T., Heckman, C. A., Gombart, A. F., Koeffler, H. P., Boxer, L. M., Friedman, A. D.  
2005; 3 (10): 585-596

- **Regulatory elements in the immunoglobulin heavy chain gene 3'-enhancers induce c-myc deregulation and lymphomagenesis in murine B cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Wang, J. H., Boxer, L. M.  
2005; 280 (13): 12766-12773
- **Histone deacetylase inhibitors down-regulate bcl-2 expression and induce apoptosis in t(14;18) lymphomas** *MOLECULAR AND CELLULAR BIOLOGY*  
Duan, H., Heckman, C. A., Boxer, L. M.  
2005; 25 (5): 1608-1619
- **A genome-wide view of the in vitro response to L-asparaginase in acute lymphoblastic leukemia** *CANCER RESEARCH*  
Fine, B. M., Kaspers, G. J., Ho, M., Loonen, A. H., Boxer, L. M.  
2005; 65 (1): 291-299
- **C/EBP alpha and C/EBP alpha myeloid oncoproteins inhibit apoptosis and induce bcl-2 via DNA-binding dependent and independent mechanisms.** *46th Annual Meeting of the American-Society-of-Hematology*  
Paz-Priel, I., Cai, D. H., Wang, D. H., Heckman, C. A., Gombart, A. F., Koeffler, H. P., Boxer, L. M., Friedman, A. D.  
AMER SOC HEMATOLOGY.2004: 701A-702A
- **Enhanced apoptosis to chemotherapeutic agents is dependent on NF kappa B and Bcl2-related proteins but is independent of p53 and bax in Burkitt's lymphoma cells** *46th Annual Meeting of the American-Society-of-Hematology*  
Kanda, K., Wong, W., Boxer, L. M.  
AMER SOC HEMATOLOGY.2004: 431A-431A
- **HDAC2 plays a role in protecting t(14;18) lymphoma cells from apoptosis by up-regulation of Bcl-2** *46th Annual Meeting of the American-Society-of-Hematology*  
Duan, H., Heckman, C. A., Boxer, L. M.  
AMER SOC HEMATOLOGY.2004: 321A-321A
- **Neurotrophin-3 and a CREB-mediated signaling pathway regulate Bcl-2 expression in oligodendrocyte progenitor cells** *JOURNAL OF NEUROCHEMISTRY*  
Saini, H. S., Gorse, K. M., Boxer, L. M., Sato-Bigbee, C.  
2004; 89 (4): 951-961
- **Gene expression patterns associated with recurrent chromosomal translocations in acute lymphoblastic leukemia** *BLOOD*  
Fine, B. M., Stanulla, M., Schrappe, M., Ho, M., Viehmann, S., HARBOTT, J., Boxer, L. M.  
2004; 103 (3): 1043-1049
- **Oct-2 and bob-1 are involved in the survival of t(14;18) lymphoma cells and regulate Bcl-2 gene expression.** *45th Annual Meeting and Exhibition of the American-Society-of-Hematology*  
Heckman, C. A., Boxer, L. M.  
AMER SOC HEMATOLOGY.2003: 62A-63A
- **Determination of the global gene expression response to L-asparaginase (L-asp) in acute lymphoblastic leukemia (ALL) cell lines and clinical samples.** *45th Annual Meeting and Exhibition of the American-Society-of-Hematology*  
Fine, B. M., Ho, M., Kaspers, G. J., Loonen, A. H., Brown, P. O., Boxer, L. M.  
AMER SOC HEMATOLOGY.2003: 138A-138A
- **HDAC inhibitors induce apoptosis and down-regulate Bcl-2 expression in t(14;18) follicular lymphoma cells.** *45th Annual Meeting and Exhibition of the American-Society-of-Hematology*  
Duan, H., Heckman, C. A., Boxer, L. M.  
AMER SOC HEMATOLOGY.2003: 366A-366A
- **Critical elements of the immunoglobulin heavy chain gene enhancers for deregulated expression of bcl-2** *CANCER RESEARCH*  
Heckman, C. A., Cao, T., Somsouk, L., Duan, H., Mehew, J. W., Zhang, C. Y., Boxer, L. M.  
2003; 63 (20): 6666-6673
- **Regulation of Bcl-2 expression by C/EBP in t(14;18) lymphoma cells** *ONCOGENE*  
Heckman, C. A., Wheeler, M. A., Boxer, L. M.  
2003; 22 (39): 7891-7899

- **Cytokine-mediated down-regulation of the transcription factor cAMP-response element-binding protein in pancreatic beta-cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Jambal, P., Masterson, S., Nesterova, A., Bouchard, R., Bergman, B., Hutton, J. C., Boxer, L. M., Reusch, J. E., Pugazhenth, S.  
2003; 278 (25): 23055-23065
- **Oxidative stress-mediated down-regulation of bcl-2 promoter in hippocampal neurons** *JOURNAL OF NEUROCHEMISTRY*  
Pugazhenth, S., Nesterova, A., Jambal, P., Audesirk, G., Kern, M., Cabell, L., Eves, E., Rosner, M. R., Boxer, L. M., Reusch, J. E.  
2003; 84 (5): 982-996
- **Impaired proliferation and survival of activated B cells in transgenic mice that express a dominant-negative cAMP-response element-binding protein transcription factor in B cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Zhang, C. Y., Wu, Y. L., Boxer, L. M.  
2002; 277 (50): 48359-48365
- **In childhood acute lymphoblastic leukemia, BCR/ABL is associated with a more heterogeneous pattern of gene expression than is TEL/AML1 or MLL/AF4.** *44th Annual Meeting of the American-Society-of-Hematology*  
Fine, B. M., Stanulla, M., Schrappe, M., Ho, M. T., HARBOTT, J., Brown, P. O., Boxer, L. M.  
AMER SOC HEMATOLOGY.2002: 753A-753A
- **L-asparaginase (L-asp) resistance is not predicted by baseline asparagine synthetase (ASNS) expression but is associated with increased ASNS expressions following exposure to L-asp in acute lymphoblastic leukemia (ALL).** *44th Annual Meeting of the American-Society-of-Hematology*  
Fine, B. M., Ho, M. T., Kaspers, G. J., Loonen, A. H., Brown, P. O., Boxer, L. M.  
AMER SOC HEMATOLOGY.2002: 320A-320A
- **Inhibition of NF-kappa B decreases c-Myc expression and enhances apoptosis of Burkitt's lymphoma cells in response to treatment with chemotherapeutic agents.** *44th Annual Meeting of the American-Society-of-Hematology*  
Wong, W. B., Kanda, K., Boxer, L. M.  
AMER SOC HEMATOLOGY.2002: 539A-539A
- **Signalling pathways linking proliferation and survival in oligodendrocyte progenitors**  
Saini, H. S., Chu, A. K., Boxer, L. M., Sato-Bigbee, C.  
WILEY-BLACKWELL.2002: 48-48
- **NF-kappa B activates Bcl-2 expression in t(14;18) lymphoma cells** *ONCOGENE*  
Heckman, C. A., Mehew, J. W., Boxer, L. M.  
2002; 21 (24): 3898-3908
- **A myc-associated zinc finger protein-related factor binding site is required for the deregulation of c-myc expression by the immunoglobulin heavy chain gene enhancers in Burkitt's lymphoma** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Hu, H. M., Arcinas, M., Boxer, L. M.  
2002; 277 (12): 9819-9824
- **Allele-specific analysis of transcription factors binding to promoter regions** *METHODS*  
Heckman, C. A., Boxer, L. M.  
2002; 26 (1): 19-26
- **The critical role of the PE21 element in oncostatin M-mediated transcriptional repression of the p53 tumor suppressor gene in breast cancer cells** *ONCOGENE*  
Li, C., Ahlborn, T. E., Tokita, K., Boxer, L. M., Noda, A., Liu, J. W.  
2001; 20 (57): 8193-8202
- **The mechanism of bcl-2 activation by NF-kappa B in t(14;18) lymphomas.**  
Heckman, C. A., Mehew, J. W., Boxer, L. M.  
AMER SOC HEMATOLOGY.2001: 760A-760A
- **Identification of a regulatory element required for full activation of c-myc promoter by the immunoglobulin heavy chain enhancer.**  
Hu, H. M., Boxer, L. M.  
AMER SOC HEMATOLOGY.2001: 98A-98A
- **Acute lymphoblastic leukemia cell lines with different chromosomal translocations have distinct patterns of gene expression.**  
Fine, B. M., Brown, P. O., Boxer, L. M.

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AMER SOC HEMATOLOGY.2001: 305A–305A

- **C/EBP alpha is expressed in a t(14;18) cell line and activates the Bcl-2 promoter.**  
Wheeler, M. A., Heckman, C. A., Boxer, L. M.  
AMER SOC HEMATOLOGY.2001: 833A–833A
- **Translocations involving c-myc and c-myc function** *ONCOGENE*  
Boxer, L. M., DANG, C. V.  
2001; 20 (40): 5595-5610
- **The cyclic AMP response element in the Bcl-2 promoter confers inducibility by hypoxia in neuronal cells** *MOLECULAR BRAIN RESEARCH*  
Freeland, K., Boxer, L. M., Latchman, D. S.  
2001; 92 (1-2): 98-106
- **Molecular mechanisms of transcriptional control of bcl-2 and c-myc in follicular and transformed lymphoma** *CANCER RESEARCH*  
Arcinas, M., Heckman, C. A., Mehew, J. W., Boxer, L. M.  
2001; 61 (13): 5202-5206
- **Suppression of apoptosis and granulocyte colony-stimulating factor-induced differentiation by an oncogenic form of Cbl** *EXPERIMENTAL HEMATOLOGY*  
Sinha, S., Jancarik, J., Roginskaya, V., Rothermund, K., Boxer, L. M., Corey, S. J.  
2001; 29 (6): 746-755
- **Negative regulation of bcl-2 expression by p53 in hematopoietic cells** *ONCOGENE*  
Wu, Y. L., Mehew, J. W., Heckman, C. A., Arcinas, M., Boxer, L. M.  
2001; 20 (2): 240-251
- **Nerve growth factor- and epidermal growth factor-regulated gene transcription in PC12 pheochromocytoma and INS-1 insulinoma cells** *EUROPEAN JOURNAL OF CELL BIOLOGY*  
Groot, M., Boxer, L. M., Thiel, G.  
2000; 79 (12): 924-935
- **Regulation of Bcl-2 expression by NF-kappa B in t(14;18) lymphoma cells.**  
Heckman, C. A., Mehew, J. W., Boxer, L. M.  
AMER SOC HEMATOLOGY.2000: 299A–299A
- **Deregulation of c-myc gene expression by the human IgH 3' enhancer in Burkitt's lymphoma.**  
Zhang, L., Somsouk, L., Boxer, L. M.  
AMER SOC HEMATOLOGY.2000: 304A–304A
- **Multiple transcription factors interact with the murine IgH 3' enhancer sequences and deregulate c-myc expression.**  
Kanda, K., Banka, P., Shaikh, A., Boxer, L. M.  
AMER SOC HEMATOLOGY.2000: 300A–300A
- **NF-kappa B activity is required for the deregulation of c-myc expression by the immunoglobulin heavy chain enhancer** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Kanda, K., Hu, H. M., Zhang, L., Grandchamps, J., Boxer, L. M.  
2000; 275 (41): 32338-32346
- **Akt/protein kinase B up-regulates Bcl-2 expression through cAMP-response element-binding protein** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Pugazhenthii, S., Nesterova, A., Sable, C., Heidenreich, K. A., Boxer, L. M., Heasley, L. E., Reusch, J. E.  
2000; 275 (15): 10761-10766
- **A-Myb up-regulates bcl-2 through a Cdx binding site in t(14;18) lymphoma cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Heckman, C. A., Mehew, J. W., Ying, G. G., Introna, M., Golay, J., Boxer, L. M.  
2000; 275 (9): 6499-6508
- **Suppressor p53 in B-cell lymphoma lines.**  
Wu, Y. L., Heckman, C. A., Boxer, L. M.  
AMER SOC HEMATOLOGY.1999: 58A–58A
- **Identification of regulatory elements in the Ig H enhancers that deregulate c-myc expression in Burkitt's lymphoma.**

- Hu, H. M., Shin, D., Boxer, L. M.  
AMER SOC HEMATOLOGY.1999: 60A–60A
- **The expression of p53 tumor suppressor gene in breast cancer cells is down-regulated by cytokine oncostatin M** *CELL GROWTH & DIFFERENTIATION*  
Liu, J. W., Li, C., Ahlborn, T. E., Spence, M. J., Meng, L., Boxer, L. M.  
1999; 10 (10): 677-683
  - **Insulin-like growth factor-I induces bcl-2 promoter through the transcription factor cAMP-response element-binding protein** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Pugazhenthii, S., Millers, E., Sable, C., Young, P., Heidenreich, K. A., Boxer, L. M., Reusch, J. E.  
1999; 274 (39): 27529-27535
  - **A zinc-finger transcription factor induced by TGF-beta promotes apoptotic cell death in epithelial Mv1Lu cells** *FEBS LETTERS*  
Chaloux, E., Lopez-Rovira, T., Rosa, J. L., Pons, G., Boxer, L. M., Bartrons, R., Ventura, F.  
1999; 457 (3): 478-482
  - **p53 suppresses the activation of the Bcl-2 promoter by the Brn-3a POU family transcription factor** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Budhram-Mahadeo, V., Morris, P. J., Smith, M. D., Midgley, C. A., Boxer, L. M., Latchman, D. S.  
1999; 274 (21): 15237-15244
  - **Activation of the Bcl-2 promoter by nerve growth factor is mediated by the p42/p44 MAPK cascade** *NUCLEIC ACIDS RESEARCH*  
Liu, Y. Z., Boxer, L. M., Latchman, D. S.  
1999; 27 (10): 2086-2090
  - **An NF-kappa B site in the IgH enhancer deregulates bcl-2 expression in t(14;18) lymphomas.**  
Somsouk, L., Heckman, C. A., Mehew, J. W., Kanda, K., Boxer, L. M.  
FEDERATION AMER SOC EXP BIOL.1999: A1465–A1465
  - **An NF-kappa B site in the IgH enhancer deregulates c-myc expression in Burkitt's lymphoma.**  
Kanda, K., Grandchamps, J., Boxer, L. M.  
AMER SOC HEMATOLOGY.1998: 382A–382A
  - **The N-terminal domain unique to the long form of the Brn-3a transcription factor is essential to protect neuronal cells from apoptosis and for the activation of Bcl-2 gene expression** *NUCLEIC ACIDS RESEARCH*  
Smith, M. D., DAWSON, S. J., Boxer, L. M., Latchman, D. S.  
1998; 26 (18): 4100-4107
  - **Bcl-2 transcription from the proximal P2 promoter is activated in neuronal cells by the Brn-3a POU family transcription factor** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Smith, M. D., Ensor, E. A., Coffin, R. S., Boxer, L. M., Latchman, D. S.  
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  - **The WT1 protein is a negative regulator of the normal bcl-2 allele in t(14;18) lymphomas** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Heckman, C., Mochon, E., Arcinas, M., Boxer, L. M.  
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  - **Identification of the major positive regulators of c-myb expression in hematopoietic cells of different lineages** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Sullivan, J., Feeley, B., GUERRA, J., Boxer, L. M.  
1997; 272 (3): 1943-1949
  - **Induction of bcl-2 expression by phosphorylated CREB proteins during B-cell activation and rescue from apoptosis** *MOLECULAR AND CELLULAR BIOLOGY*  
Wilson, B. E., Mochon, E., Boxer, L. M.  
1996; 16 (10): 5546-5556
  - **CREB proteins function as positive regulators of the translocated bcl-2 allele in t(14;18) lymphomas** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Ji, L., Mochon, E., Arcinas, M., Boxer, L. M.  
1996; 271 (37): 22687-22691
  - **Identification of an inducible regulator of c-myb expression during T-cell activation** *MOLECULAR AND CELLULAR BIOLOGY*  
Phan, S. C., Feeley, B., Withers, D., Boxer, L. M.

1996; 16 (5): 2387-2393

- **Identification of an inducible regulator of c-Myb expression during T cell activation.**  
Phan, S. C., Feeley, B., Withers, D., Boxer, L. M.  
AMER SOC HEMATOLOGY.1995: 627-27
- **REPRESSION OF THE C-MYB GENE BY WT1 PROTEIN IN T-CELL AND B-CELL LINES** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
McCann, S., Sullivan, J., GUERRA, J., Arcinas, M., Boxer, L. M.  
1995; 270 (40): 23785-23789
- **MYB BINDING-SITES MEDIATE NEGATIVE REGULATION OF C-MYB EXPRESSION IN T-CELL LINES** *BLOOD*  
GUERRA, J., Withers, D. A., Boxer, L. M.  
1995; 86 (5): 1873-1880
- **PI-1 BINDING-SITES ARE NEGATIVE REGULATORS OF BCL-2 EXPRESSION IN PRE-B CELLS** *MOLECULAR AND CELLULAR BIOLOGY*  
Chen, H. M., Boxer, L. M.  
1995; 15 (7): 3840-3847
- **THE TRANSCRIPTION FACTOR, NM23H2, BINDS TO AND ACTIVATES THE TRANSLOCATED C-MYC ALLELE IN BURKITT'S-LYMPHOMA** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Ji, L., Arcinas, M., Boxer, L. M.  
1995; 270 (22): 13392-13398
- **NF-KAPPA-B SITES FUNCTION AS POSITIVE REGULATORS OF EXPRESSION OF THE TRANSLOCATED C-MYC ALLELE IN BURKITT'S-LYMPHOMA** *MOLECULAR AND CELLULAR BIOLOGY*  
Ji, L., Arcinas, M., Boxer, L. M.  
1994; 14 (12): 7967-7974
- **NF-KAPPA-B SITES FUNCTION AS POSITIVE REGULATORS OF EXPRESSION OF THE TRANSLOCATED C-MYC ALLELE IN BURKITT'S-LYMPHOMA**  
Ji, L., Arcinas, M., Boxer, L. M.  
AMER SOC HEMATOLOGY.1994: A37-A37
- **ETS PROTEINS ARE MAJOR POSITIVE REGULATORS OF C-MYB EXPRESSION IN T-CELLS**  
GUERRA, J., Feeley, B., Boxer, L. M.  
AMER SOC HEMATOLOGY.1994: A40-A40
- **DIFFERENTIAL PROTEIN-BINDING TO THE C-MYC PROMOTER DURING DIFFERENTIATION OF HEMATOPOIETIC-CELL LINES** *ONCOGENE*  
Arcinas, M., Boxer, L. M.  
1994; 9 (9): 2699-2706
- **ACTIVATION OF C-MYC EXPRESSION BY C-ABL IS INDEPENDENT OF BOTH THE DNA-BINDING FUNCTION OF C-ABL AND THE C-MYC EP SITE** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Arcinas, M., Sizer, K. C., Boxer, L. M.  
1994; 269 (34): 21919-21924
- **THE ROLE OF ONCOGENES IN HEMATOLOGIC MALIGNANCIES** *ANNUAL REVIEW OF MEDICINE*  
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