Stanford



Beverly S. Mitchell, M.D.

George E. Becker Professor of Medicine, Emerita

Medicine - Oncology

NIH Biosketch available Online Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Professor Emeritus, Medicine - Oncology
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Deputy Director, Stanford Cancer Center, (2005-2008)
- Director, Stanford Cancer Institute, (2008-2018)

HONORS AND AWARDS

- National Academy of Sciences, Institute of Medicine (Inducted 2001)
- Fellow, American Association for the Advancement of Science (2015)
- Member, Association of American Professors (1991)
- Member, American Society for Clinical Investigation (to present)
- President, American Society of Hematology (2001)
- Mentorship Award, American Society of Hematology (2012)
- Walter Hewlitt Physician Scientist Award, Stanford Department of Medicine (2012)

PROFESSIONAL EDUCATION

- M.D., Harvard Medical School , Medicine (1969)

LINKS

- Video Story: https://stanfordhealthcare.org/stanford-health-care-now/why-i-got-into-medicine/why-medicine-beverly-mitchell-md.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Beverly S. Mitchell, MD, is the former Director of the Stanford Cancer Institute and is the George E. Becker Professor of Medicine at Stanford University. Before joining the Stanford faculty, Dr. Mitchell lead the Molecular Therapeutics Program at UNC Chapel Hill's Lineberger Comprehensive Cancer Center, where she also served as Associate Director for Translational Research and Chief of the Division of Hematology/Oncology.

She has authored over 130 peer-reviewed articles. She served as President of the American Society of Hematology (ASH) and was Chair of the Medical and Scientific Affairs Committee and Vice Chair for Medical and Scientific Affairs of the Leukemia and Lymphoma Society of America.

Dr. Mitchell's current research relates to the development of new therapies for hematologic malignancies. She is interested in preclinical proof of principle studies on mechanisms inducing cell death and on metabolic targets involving nucleic acid biosynthesis in malignant cells. Recent studies have focused on the role of nucleolar proteins in cellular stress responses, including that induced by reactive oxygen species. She is also interested in the regulation of ribosomal RNA synthesis in hematopoietic stem and progenitor cells and in the role of dysregulated synthesis in bone marrow failure syndromes. in addition, her laboratory is involved in the translation of these studies into scientifically designed clinical trials.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Chemical and Systems Biology (PhD Program)

Publications

PUBLICATIONS

- **Brd4 regulates the expression of essential autophagy genes and Keap1 in AML cells.** *Oncotarget*
  Huang, M., Zhu, L., Garcia, J. S., Li, M. X., Gentles, A. J., Mitchell, B. S.
  2018; 9 (14): 11665–76
- **Future cancer research priorities in the USA: a Lancet Oncology Commission** *LANCET ONCOLOGY*
  Jaffee, E. M., Dang, C., Agus, D. B., Alexander, B. M., Anderson, K. C., Ashworth, A., Barker, A. D., Bastani, R., Bhatia, S., Bluestone, J. A., Brawley, O., Butte, A. J., Coit, et al
  2017; 18 (11): E653–E706
- **Autophagy mediates proteolysis of NPM1 and HEXIM1 and sensitivity to BET inhibition in AML cells.** *Oncotarget*
  Huang, M., Garcia, J. S., Thomas, D., Zhu, L., Nguyen, L. X., Chan, S. M., Majeti, R., Medeiros, B. C., Mitchell, B. S.
  2016
- **Expression and Role of the ErbB3-Binding Protein 1 in Acute Myelogenous Leukemic Cells** *CLINICAL CANCER RESEARCH*
  Le Xuan Truong Nguyen, L. X., Zhu, L., Lee, Y., Ta, L., Mitchell, B. S.
  2016; 22 (13): 3320-3327
- **Regulation of ribosomal gene expression in cancer.** *Journal of cellular physiology*
  Nguyen, L. X., Raval, A., Garcia, J. S., Mitchell, B. S.
  2015; 230 (6): 1181-1188
- **Regulation of Ribosomal Gene Expression in Cancer** *JOURNAL OF CELLULAR PHYSIOLOGY*
  Le Xuan Truong Nguyen, L. X., Raval, A., Garcia, J. S., Mitchell, B. S.
  2015; 230 (6): 1181-1188
- **Regulation of ribosomal RNA synthesis in T cells: requirement for GTP and Ebp1.** *Blood*
  Nguyen, L. X., Lee, Y., Urbani, L., Utz, P. J., Hamburger, A. W., Sunwoo, J. B., Mitchell, B. S.
  2015; 125 (16): 2519-2529
- **Regulation of ribosomal RNA synthesis in T cells: requirement for GTP and Ebp1** *BLOOD*
  Le Xuan Truong Nguyen, L. X., Lee, Y., Urbani, L., Utz, P. J., Hamburger, A. W., Sunwoo, J. B., Mitchell, B. S.
  2015; 125 (16): 2519-2529
- **Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice.** *PloS one*
  Raval, A., Behbehani, G. K., Nguyen, L. X., Thomas, D., Kusler, B., Garbuzov, A., Ramunas, J., Holbrook, C., Park, C. Y., Blau, H., Nolan, G. P., Artandi, S. E., Mitchell, et al
  2015; 10 (7)
- **Interaction of TIF-90 and filamin A in the regulation of rRNA synthesis in leukemic cells.** *Blood*
  Nguyen, L. X., Chan, S. M., Ngo, T. D., Raval, A., Kim, K. K., Majeti, R., Mitchell, B. S.

2014; 124 (4): 579-589

- **Akt activation enhances ribosomal RNA synthesis through casein kinase II and TIF-IA** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Le Xuan Truong Nguyen, L. X., Mitchell, B. S.
  2013; 110 (51): 20681-20686
- **Reduced rRNA expression and increased rDNA promoter methylation in CD34(+) cells of patients with myelodysplastic syndromes** *BLOOD*
  Raval, A., Sridhar, K. J., Patel, S., Turnbull, B. B., Greenberg, P. L., Mitchell, B. S.
  2012; 120 (24): 4812-4818
- **Effect of nucleophosmin1 haploinsufficiency on hematopoietic stem cells** *LEUKEMIA*
  Raval, A., Kusler, B., Pang, W. W., Weissman, I. L., Mitchell, B. S., Park, C. Y.
  2012; 26 (4): 853-855
- **Cyclopentenyl Cytosine Induces Senescence in Breast Cancer Cells through the Nucleolar Stress Response and Activation of p53** *MOLECULAR PHARMACOLOGY*
  Huang, M., Whang, P., Lewicki, P., Mitchell, B. S.
  2011; 80 (1): 40-48
- **Reactive Oxygen Species Regulate Nucleostemin Oligomerization and Protein Degradation** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Huang, M., Whang, P., Chodaparambil, J. V., Pollyea, D. A., Kusler, B., Xu, L., Felsher, D. W., Mitchell, B. S.
  2011; 286 (13): 11035-11046
- **Depletion of Guanine Nucleotides Leads to the Mdm2-Dependent Proteasomal Degradation of Nucleostemin** *CANCER RESEARCH*
  Huang, M., Itahana, K., Zhang, Y., Mitchell, B. S.
  2009; 69 (7): 3004-3012
- **Determinants of sensitivity of human T-cell leukemia CCRF-CEM cells to immucillin-H** *LEUKEMIA RESEARCH*
  Huang, M., Wang, Y., Gu, J., Yang, J., Noel, K., Mitchell, B. S., Schramm, V. L., Graves, L. M.
  2008; 32 (8): 1268-1278
- **Guanine nucleotide depletion inhibits pre-ribosomal RNA synthesis and causes nucleolar proteins** *Leuk Res*
  Huang M, Ji Y, Itahana K, Zhang Y, Mitchell BS
  2008; 32 (1): 131-141
- **The 5 '-nucleotidases as regulators of nucleotide and drug metabolism** *PHARMACOLOGY & THERAPEUTICS*
  Hunsucker, S. A., Mitchell, B. S., Spychala, J.
  2005; 107 (1): 1-30
- **Phase I study of 506U78 administered on a consecutive 5-day schedule in children and adults with refractory hematologic malignancies** *JOURNAL OF CLINICAL ONCOLOGY*
  Kurtzberg, J., Ernst, T. J., Keating, M. J., Gandhi, V., Hodge, J. P., Kisor, D. F., Lager, J. J., Stephens, C., Levin, J., Krenitsky, T., Elion, G., Mitchell, B. S.
  2005; 23 (15): 3396-3403
- **Synergy between imatinib and mycophenolic acid in inducing apoptosis in cell lines expressing Bcr-Abl** *BLOOD*
  Gu, J. J., Santiago, L., Mitchell, B. S.
  2005; 105 (8): 3270-3277
- **Phase 1 trial of the proteasome inhibitor bortezomib and pegylated liposomal doxorubicin in patients with advanced hematologic malignancies** *BLOOD*
  Orlowski, R. Z., Voorhees, P. M., Garcia, R. A., Hall, M. D., Kudrik, F. J., Allred, T., Johri, A. R., Jones, P. E., Ivanova, A., van Deventer, H. W., Gabriel, D. A., Shea, T. C., Mitchell, et al
  2005; 105 (8): 3058-3065
- **ACCO: ASCO core curriculum outline** *JOURNAL OF CLINICAL ONCOLOGY*
  Muss, H. B., Von Roenn, J., Damon, L. E., DeAngelis, L. M., Flaherty, L. E., Harari, P. M., Kelly, K., KOSTY, M. P., Loscalzo, M. J., Mennel, R., Mitchell, B. S., Mortimer, J. E., Muggia, et al
  2005; 23 (9): 2049-2077

- **Effects of the IMP-dehydrogenase inhibitor, Tiazofurin, in bcr-abl positive acute myelogenous leukemia - Part I. In vivo studies** *LEUKEMIA RESEARCH*
  Malek, K., Boosalis, M. S., Waraska, K., Mitchell, B. S., Wright, D. G.
  2004; 28 (11): 1125-1136

- **Role of estrogen receptor in the regulation of ecto-5 '-nucleotidase and adenosine in breast cancer** *CLINICAL CANCER RESEARCH*
  Spychala, J., Lazarowski, E., Ostapkowicz, A., Ayscue, L. H., Jin, A., Mitchell, B. S.
  2004; 10 (2): 708-717

- **Role of human Pso4 in mammalian DNA repair and association with terminal deoxynucleotidyl transferase** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Mahajan, K. N., Mitchell, B. S.
  2003; 100 (19): 10746-10751

- **Expression and Role of the ErbB3-Binding Protein 1 in Acute Myelogenous Leukemic Cells.** *Clinical cancer research*
  Nguyen, L. X., Zhu, L., Lee, Y., Ta, L., Mitchell, B. S.
  2016; 22 (13): 3320-3327

- **Selective Toxicity of Investigational Ixazomib for Human Leukemia Cells Expressing Mutant Cytoplasmic NPM1: Role of Reactive Oxygen Species.** *Clinical cancer research*
  Garcia, J. S., Huang, M., Medeiros, B. C., Mitchell, B. S.
  2016; 22 (8): 1978-1988

- **Age and Genetics How Do Prognostic Factors at Diagnosis Explain Disparities in Acute Myeloid Leukemia?** *AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS*
  Patel, M. I., Ma, Y., Mitchell, B. S., Rhoads, K. F.
  2015; 38 (2): 159-164

- **How do differences in treatment impact racial and ethnic disparities in acute myeloid leukemia?** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*
  Patel, M. I., Ma, Y., Mitchell, B., Rhoads, K. F.
  2015; 24 (2): 344-349

- **Effect of CAL-101, a PI3K delta inhibitor, on ribosomal rna synthesis and cell proliferation in acute myeloid leukemia cells** *BLOOD CANCER JOURNAL*
  Nguyen, L. X., Sesay, A., Mitchell, B. S.
  2014; 4

- **Role of cysteine 288 in nucleophosmin cytoplasmic mutations: sensitization to toxicity induced by arsenic trioxide and bortezomib** *LEUKEMIA*
  Huang, M., Thomas, D., Li, M. X., Feng, W., Chan, S. M., Majeti, R., Mitchell, B. S.
  2013; 27 (10): 1970-1980

- **Sequential azacitidine plus lenalidomide combination for elderly patients with untreated acute myeloid leukemia.** *Haematologica*
  Pollyea, D. A., Zehnder, J., Coutre, S., Gotlib, J. R., Gallegos, L., Abdel-Wahab, O., Greenberg, P., Zhang, B., Liedtke, M., Berube, C., Levine, R., Mitchell, B. S., Medeiros, et al
  2013; 98 (4): 591-596

- **Understanding disparities in leukemia: a national study** *CANCER CAUSES & CONTROL*
  Patel, M. I., Ma, Y., Mitchell, B. S., Rhoads, K. F.
  2012; 23 (11): 1831-1837

- **Safety, efficacy and biological predictors of response to sequential azacitidine and lenalidomide for elderly patients with acute myeloid leukemia** *LEUKEMIA*
  Pollyea, D. A., Kohrt, H. E., Gallegos, L., Figueroa, M. E., Abdel-Wahab, O., Zhang, B., Bhattacharya, S., Zehnder, J., Liedtke, M., Gotlib, J. R., Coutre, S., Berube, C., Melnick, et al
  2012; 26 (5): 893-901

- **Synthesis of 2 '-Deoxy-2 '-[F-18]Fluoro-9-beta-D-Arabinofuranosylguanine: a Novel Agent for Imaging T-Cell Activation with PET** *MOLECULAR IMAGING AND BIOLOGY*
  Namavari, M., Chang, Y., Kusler, B., Yaghoubi, S., Mitchell, B. S., Gambhir, S. S.

2011; 13 (5): 812-818

- **Impact of TET2 mutations on mRNA expression and clinical outcomes in MDS patients treated with DNA methyltransferase inhibitors** *HEMATOLOGICAL ONCOLOGY*
  Pollyea, D. A., Raval, A., Kusler, B., Gotlib, J. R., Alizadeh, A. A., Mitchell, B. S.
  2011; 29 (3): 157-160
- **Tenascin C interacts with ecto-5'-nucleotidase (eN) and regulates adenosine generation in cancer cells** *Biochem Biophys Acta*
  Sadej R, Inai K, Rajfur Z, Ostapkowicz A, Kohler J, Skladanowski AC, Mitchell BS, Spychala J
  2008; 1782 (1): 35-40
- **Guanine nucleotide depletion inhibits pre-ribosornal RNA synthesis and causes nucleolar disruption** *LEUKEMIA RESEARCH*
  Huang, M., Ji, Y., Itahana, K., Zhang, Y., Mitchell, B.
  2008; 32 (1): 131-141
- **Guanine nucleotide depletion mediates translocation of nucleolar proteins, including RNA helicase A (DHX-9)** *12th International Symposium on Purine and Pyrimidine Metabolism*
  Huang, M., Mitchell, B. S.
  TAYLOR & FRANCIS INC.2008: 704–11
- **Nelarabine induces complete remissions in adults with relapsed or refractory T-lineage acute lymphoblastic leukemia or lymphoblastic lymphoma: Cancer and Leukemia Group B study 19801** *BLOOD*
  DeAngelo, D. J., Yu, D., Johnson, J. L., Coutre, S. E., Stone, R. M., Stopeck, A. T., Gockerman, J. P., Mitchell, B. S., Appelbaum, F. R., Larson, R. A.
  2007; 109 (12): 5136-5142
- **Nelarabing induces complete remissions in adults with relapsed or refractory t-lineage acute lymphoblastic leukemia or lymphoblastic lymphoma: cancer and leukemia group B study 19801** *Blood*
  DeAngelo D, Yu D, Johnson J, Coutre S, Stone R, Stopeck A, Gockerman J, Mitchell B, Appelbaum F, Larson R
  2007; 109 (12): 5136-5142
- **Genetic and biochemical biomarkers of IMPDH inhibition in phase I dose escalation of AVN-944 for hematologic malignancies.** *48th Annual Meeting of the American-Society-of-Hematology*
  Strovel, J. W., Chakiath, M., Natarajan, P., Lawrence, T., Zuck, K. M., Urbani, L., Mitchell, B. S., Bol, D. K.
  AMER SOC HEMATOLOGY.2006: 731A–732A
- **Effect of lysophosphatidic acid acyltransferase-beta inhibition in acute leukemia** *LEUKEMIA RESEARCH*
  Douvas, M. G., Hogan, K. N., Ji, Y., Hollenback, D., Bonham, L., Singer, J. W., Mitchell, B. S.
  2006; 30 (8): 1027-1036
- **Regulation of the interaction of inosine monophosphate dehydrogenase with mycophenolic acid by GTP** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Ji, Y. S., Gu, J. J., Makhov, A. M., Griffith, J. D., Mitchell, B. S.
  2006; 281 (1): 206-212
- **Effect of lysosphatidic acid acyltransferase-B inhibition in acute luekemia** *Leu Res*
  Douvas MG, Hogan KN, Ji Y, Holleneck D, Bonham L, Singer JW, Mitchell BS
  2006; 30 (8): 1027-1036
- **Regulation of equilibrative nucleoside uptake by protein kinase inhibitors** *Joint 11th International and 9th European Symposium on Purines and Pyrimidines in Man*
  Huang, M., Wang, Y. H., Mitchell, B. S., Graves, L. M.
  TAYLOR & FRANCIS INC.2004: 1445–50
- **On the molecular pathology of neurodegeneration in IMPDH1-based retinitis pigmentosa** *HUMAN MOLECULAR GENETICS*
  Aherne, A., Kennan, A., Kenna, P. F., McNally, N., Lloyd, D. G., Alberts, I. L., Kiang, A. S., Humphries, M. M., Ayuso, C., Engel, P. C., Gu, J. J., Mitchell, B. S., Farrar, et al
  2004; 13 (6): 641-650
- **Targeted disruption of the inosine 5 '-monophosphate dehydrogenase type I gene in mice** *MOLECULAR AND CELLULAR BIOLOGY*
  Gu, J. J., Tolin, A. K., Jain, J., Huang, H., Santiago, L., Mitchell, B. S.
  2003; 23 (18): 6702-6712

- **The proteasome - An emerging therapeutic target in cancer** *NEW ENGLAND JOURNAL OF MEDICINE*
  Mitchell, B. S.
  2003; 348 (26): 2597-2598

- **Induction of apoptosis in IL-3-dependent hematopoietic cell lines by guanine nucleotide depletion** *BLOOD*
  Gu, J. J., Gathy, K., Santiago, L., Chen, E., Huang, M., Graves, L. M., Mitchell, B. S.
  2003; 101 (12): 4958-4965

- **Inhibition of nucleoside transport by protein kinase inhibitors** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
  Huang, M., Wang, Y. H., Cogut, S. B., Mitchell, B. S., Graves, L. M.
  2003; 304 (2): 753-760

- **Phase I trial of the proteasome inhibitor PS-341 in patients with refractory hematologic malignancies** *42nd Annual Meeting of the American-Society-of-Hematology*
  Orlowski, R. Z., Stinchcombe, T. E., Mitchell, B. S., Shea, T. C., Baldwin, A. S., Stahl, S., Adams, J., Esseltine, D. L., Elliott, P. J., Pien, C. S., Guerciolini, R., Anderson, J. K., Depcik-Smith, et al
  AMER SOC CLINICAL ONCOLOGY.2002: 4420–27

- **Clinical course of thrombocytopenia in patients treated with imatinib mesylate for accelerated phase chronic myelogenous leukemia** *AMERICAN JOURNAL OF HEMATOLOGY*
  van Deventer, H. W., Hall, M. D., Orlowski, R. Z., Mitchell, B. S., Berkowitz, L. R., Hogan, C., Dunphy, C. H., Koehler, J., Shea, T. C.
  2002; 71 (3): 184-190

- **Alemtuzumab in previously treated chronic lymphocytic leukemia patients who also had received fludarabine** *42nd Annual Meeting of the American-Society-of-Hematology*
  Rai, K. R., Freter, C. E., Mercier, R. J., Cooper, M. R., Mitchell, B. S., Stadtmauer, E. A., Santabarbara, P., Wacker, B., Brettman, L.
  AMER SOC CLINICAL ONCOLOGY.2002: 3891–97

- **A77 1726 induces differentiation of human myeloid leukemia K562 cells by depletion of intracellular CTP pools** *MOLECULAR PHARMACOLOGY*
  Huang, M., Wang, Y. H., Collins, M., Mitchell, B. S., Graves, L. M.
  2002; 62 (3): 463-472

- **Inhibition of nucleoside transport by p38 MAPK inhibitors** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Huang, M., Wang, Y. H., Collins, M., Gu, J. J., Mitchell, B. S., Graves, L. M.
  2002; 277 (32): 28364-28367

- **Cyclosporin A and FK506 decrease adenosine kinase activity and adenosine uptake in T-lymphocytes** *JOURNAL OF LABORATORY AND CLINICAL MEDICINE*
  Spychala, J., Mitchell, B. S.
  2002; 140 (2): 84-91

- **Association of DNA polymerase mu (pol mu) with Ku and ligase IV: Role for pol mu in end-joining double-strand break repair** *MOLECULAR AND CELLULAR BIOLOGY*
  Mahajan, K. N., McElhinny, S. A., Mitchell, B. S., Ramsden, D. A.
  2002; 22 (14): 5194-5202

- **Arabinosylguanine is phosphorylated by both cytoplasmic deoxycytidine kinase and mitochondrial deoxyguanosine kinase** *CANCER RESEARCH*
  Rodriguez, C. O., Mitchell, B. S., Ayres, M., Eriksson, S., Gandhi, V.
  2002; 62 (11): 3100-3105

- **Tumor uptake and elimination of 2 ',2 '-difluoro-2 '-deoxycytidine (gemcitabine) after deoxycytidine kinase gene transfer: Correlation with in vivo tumor response** *CLINICAL CANCER RESEARCH*
  Blackstock, A. W., Lightfoot, H., Case, L. D., Tepper, J. E., Mukherji, S. K., Mitchell, B. S., Swarts, S. G., Hess, S. M.
  2001; 7 (10): 3263-3268

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  Mahajan, K. N., Gangi-Peterson, L., Sorscher, D. H., Wang, J. S., Gathy, K. N., Mahajan, N. P., Reeves, W. H., Mitchell, B. S.
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- **Tissue-specific regulation of the ecto-5 '-nucleotidase promoter - Role of the cAMP response element site in mediating repression by the upstream regulatory region** *JOURNAL OF BIOLOGICAL CHEMISTRY*
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- **Nucleotide pool imbalance and adenosine deaminase deficiency induce alterations of N-region insertions during V(D)J recombination** *JOURNAL OF CLINICAL INVESTIGATION*
  Gangi-Peterson, L., Sorscher, D. H., Reynolds, J. W., Kepler, T. B., Mitchell, B. S.
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  Mitchell, B. S., Schumacher, U.
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- **Compound GW506U78 in refractory hematologic malignancies: Relationship between cellular pharmacokinetics and clinical response** *JOURNAL OF CLINICAL ONCOLOGY*
  Gandhi, V., Plunkett, W., Rodriguez, C. O., Nowak, B. J., Du, M., Ayres, M., Kisor, D. F., Mitchell, B. S., Kurtzberg, J., Keating, M. J.
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- **Effects of guanine nucleotide depletion on cell cycle progression in human T lymphocytes** *BLOOD*
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  Schumacher, U., Van Damme, E. J., Peumans, W. J., Butterfield, J. H., Mitchell, B. S.
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- **Effects of guanine nucleotide depletion on cell cycle progression in human T lymphocytes** *Blood*
  Laliberte J, Yee A, Xiong Y, Mitchell BS
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- **Inosine-5 '-monophosphate dehydrogenase: Regulation of expression and role in cellular proliferation and T lymphocyte activation** *PROGRESS IN NUCLEIC ACID RESEARCH AND MOLECULAR BIOLOGY, VOL 61*
  Zimmermann, A. G., Gu, J. J., Laliberte, J., Mitchell, B. S.
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  Spychala, J., Mitchell, B. S., BARANKIEWICZ, J.
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  Gu, J. J., Spychala, J., Mitchell, B. S.
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  Spychala, J., Datta, N. S., Takabayashi, K., Datta, M., Fox, I. H., Gribbin, T., Mitchell, B. S.
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