Stanford



Joseph (Joe) Lipsick

Professor of Pathology and of Genetics

Bio

ACADEMIC APPOINTMENTS

- Professor, Pathology
- Professor, Genetics
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Member, Steering Committee, Faculty Senate, Stanford University, (2022-2023)
- Member, Governance Board, Thinking Matters Program, Stanford University, (2016-2019)
- Member, Steering Committee, Faculty Senate, Stanford University, (2017-2018)
- Member, Committee on Graduate Studies, Stanford University, (2016-2017)
- Member, Committee on Committees, Stanford University, (2015-2016)
- Member, Steering Committee, Faculty Senate, Stanford University, (2011-2012)
- Director, Graduate Program in Cancer Biology, Stanford University, (2002-2005)
- Chair, Committee on Committees, Stanford University, (2000-2001)
- Member, Committee on Committees, Stanford University, (1999-2001)
- Associate Chair for Experimental Pathology, Stanford University, (1995-2002)
- Director, Graduate Program in Genetics, Stony Brook University/ Cold Spring Harbor Laboratory/ Brookhaven National Laboratory, (1991-1993)

HONORS AND AWARDS

- Walter J Gores Award for Excellence in Teaching, Stanford University (2015)
- Award for Excellence in Diversity and Inclusion, Stanford University School of Medicine (2015)
- Fellow, American Association for the Advancement of Science (2006-present)
- Award for Outstanding Service to Graduate Students, Stanford University School of Medicine (2005)
- Award for Graduate Teaching, Stanford University School of Medicine (2005)
- Scholar, Leukemia Society of America (1989-1994)
- Fellow, Leukemia Society of America (1984-1985)

PROFESSIONAL EDUCATION

- B.A., Oberlin College , English & Biology (1974)
- M.D., Ph.D., UC San Diego , Physiology & Pharmacology (1982)

COMMUNITY AND INTERNATIONAL WORK

- Tutoring, East Palo Alto

LINKS

- Lipsick Laboratory: http://lipsicklab.stanford.edu

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Cancer is caused by mutations in oncogenes and tumor suppressor genes. Mutations are changes in the DNA sequence that may alter gene function. Gain-of-function mutations can activate oncogenes, whereas loss-of-function mutations can inactivate tumor suppressor genes. Our laboratory studies the Myb oncogene family that is mutated in human cancers of blood cells (leukemia), brain, breast, and salivary gland. The proteins encoded by Myb genes bind to DNA and regulate the expression of other genes that control cell division, differentiation, and cell death. The Myb proteins interact with a highly conserved multi-protein complex called the MuvB core. The same complex also interacts with proteins of the Rb tumor suppressor family and the E2F transcription factor family. Work from our laboratory has shown that Myb acts in opposition to Rb-E2F to epigenetically regulate gene expression. In addition to vertebrate animals and retroviruses, we used Drosophila melanogaster (fruit fly) as a model system because of the powerful genetic, genomic, and cell biological tools available in this organism. We also showed that although C. elegans (nematode worm) lost its animal-type Myb gene hundreds of millions of years ago, the Drosophila Myb “key” still binds to and can open the highly conserved worm MuvB “lock” that represses gene expression.

Teaching

COURSES

2026-27

- Cancer Biology: CBIO 101, PATH 101 (Spr)
- Foundations of Medicine II: INDE 244 (Win)

2025-26

- Cancer Biology: CBIO 101, PATH 101 (Spr)
- Foundations of Cancer Biology and Pathology: INDE 210 (Win)
- The Cancer Problem: Causes, Treatment, and Prevention: HUMBIO 175 (Aut)

2024-25

- Foundations of Cancer Biology and Pathology: INDE 210 (Win)

2023-24

- Foundations of Cancer Biology and Pathology: INDE 210 (Win)
- The Intersection of Medicine, Science, Public Policy, and Ethics: Cancer as a Case Study: MLA 358 (Win)

STANFORD ADVISEES

Master's Program Advisor

Samuel De Klerk, Susan Dunn, Ana Ferrari, Kris HAASE, Nonna Kocharyan, Kiana McCaul, Emily Modak, Cheryl Phillips, John Sandoval, Ralph Toussieh, Catrina Zhang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (PhD Program)
- Cancer Biology (PhD Program)
- Genetics (PhD Program)

Publications

PUBLICATIONS

- **A History of Cancer Research: Mouse Models of Cancer Genetics.** *Cold Spring Harbor perspectives in medicine*
  Lipsick, J.
  2026; 16 (11)
- **A History of Cancer Research: Proto-Oncogene Activation in Human Cancer.** *Cold Spring Harbor perspectives in medicine*
  Lipsick, J.
  2026; 16 (4)
- **A History of Cancer Research: Cancer Cell Growth and Metabolism.** *Cold Spring Harbor perspectives in medicine*
  Lipsick, J.
  2025; 15 (9)
- **A History of Cancer Research: G1/S Transition and the Retinoblastoma Pathway.** *Cold Spring Harbor perspectives in biology*
  Lipsick, J.
  2025; 17 (8)
- **A History of Cancer Research: The RAS Pathway.** *Cold Spring Harbor perspectives in biology*
  Lipsick, J.
  2025; 17 (7)
- **A History of Cancer Research: The P53 Pathway.** *Cold Spring Harbor perspectives in medicine*
  Lipsick, J.
  2025; 15 (2)
- **A History of Cancer Research: Oncogenic Transcription Factors.** *Cold Spring Harbor perspectives in biology*
  Lipsick, J.
  2024; 16 (6)
- **A History of Cancer Research: Retroviral Insertional Mutagenesis.** *Cold Spring Harbor perspectives in biology*
  Lipsick, J.
  2023; 15 (7)
- **A History of Cancer Research: Retroviral Oncogenes.** *Cold Spring Harbor perspectives in medicine*
  Lipsick, J.
  2022; 12 (4)
- **A History of Cancer Research: Tumor Viruses.** *Cold Spring Harbor perspectives in biology*
  Lipsick, J.
  2021; 13 (6)
- **A History of Cancer Research: Carcinogens and Mutagens.** *Cold Spring Harbor perspectives in medicine*
  Lipsick, J.
  2021; 11 (3)
- **A History of Cancer Research: Tumor Suppressor Genes.** *Cold Spring Harbor perspectives in biology*
  Lipsick, J. n.

2020; 12 (2)

- **A long lost key opens an ancient lock: Drosophila Myb causes a synthetic multivulval phenotype in nematodes.** *Biology open*
  Vorster, P. J., Goetsch, P. n., Wijeratne, T. U., Guiley, K. Z., Andrejka, L. n., Tripathi, S. n., Larson, B. J., Rubin, S. M., Strome, S. n., Lipsick, J. S.
  2020
- **A History of Cancer Research: Tyrosine Kinases.** *Cold Spring Harbor perspectives in biology*
  Lipsick, J.
  2019; 11 (2)
- **Structural mechanism of Myb-MuvB assembly** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Guiley, K. Z., Iness, A. N., Saini, S., Tripathi, S., Lipsick, J. S., Litovchick, L., Rubin, S. M.
  2018; 115 (40): 10016–21
- **The role of variant histone H2AV in D. melanogaster larval hematopoiesis** *Development*
  Grigorian, M., DeBruhl, H., Lipsick, J. S.
  2017; 144 (8): 1441-1449
- **The Drosophila LIN54 homolog Mip120 controls two aspects of oogenesis.** *Biology open*
  Cheng, M. H., Andrejka, L. n., Vorster, P. J., Hinman, A. n., Lipsick, J. S.
  2017
- **Recurrent rearrangements of the Myb/SANT-like DNA-binding domain containing 3 gene (MSANTD3) in salivary gland acinic cell carcinoma.** *PloS one*
  Barasch, N., Gong, X., Kwei, K. A., Varma, S., Biscocho, J., Qu, K., Xiao, N., Lipsick, J. S., Pelham, R. J., West, R. B., Pollack, J. R.
  2017; 12 (2)
- **The Complex Containing Drosophila Myb and RB/E2F2 Regulates Cytokinesis in a Histone H2Av-Dependent Manner** *MOLECULAR AND CELLULAR BIOLOGY*
  Debruhl, H., Wen, H., Lipsick, J. S.
  2013; 33 (9): 1809-1818
- **Duplication and maintenance of the Myb genes of vertebrate animals** *BIOLOGY OPEN*
  Davidson, C. J., Guthrie, E. E., Lipsick, J. S.
  2013; 2 (2): 101-110
- **Epigenetic regulation of olfactory receptor gene expression by the Myb-MuvB/dREAM complex** *GENES & DEVELOPMENT*
  Sim, C. K., Perry, S., Tharadra, S. K., Lipsick, J. S., Ray, A.
  2012; 26 (22): 2483-2498
- **Drosophila Lin-52 Acts in Opposition to Repressive Components of the Myb-MuvB/dREAM Complex** *MOLECULAR AND CELLULAR BIOLOGY*
  Lewis, P. W., Sahoo, D., Geng, C., Bell, M., Lipsick, J. S., Botchan, M. R.
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- **Animal-specific C-terminal domain links myeloblastosis oncoprotein (Myb) to an ancient repressor complex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Andrejka, L., Wen, H., Ashton, J., Grant, M., Iori, K., Wang, A., Manak, J. R., Lipsick, J. S.
  2011; 108 (42): 17438-17443
- **MYB Expression and Translocation in Adenoid Cystic Carcinomas and Other Salivary Gland Tumors With Clinicopathologic Correlation** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
  West, R. B., Kong, C., Clarke, N., Gilks, T., Lipsick, J. S., Cao, H., Kwok, S., Montgomery, K. D., Varma, S., Le, Q.
  2011; 35 (1): 92-99
- **The C-MYB story-is it definitive?** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Lipsick, J. S.
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- **A conserved acidic patch in the Myb domain is required for activation of an endogenous target gene and for chromatin binding** *MOLECULAR CANCER*

Ko, E. R., Ko, D., Chen, C., Lipsick, J. S.
2008; 7

- **Epigenetic regulation of gene expression by Drosophila Myb and E2F2-RBF via the Myb-MuvB/dREAM complex** *GENES & DEVELOPMENT*
  Wen, H., Andrejka, L., Ashton, J., Karess, R., Lipsick, J. S.
  2008; 22 (5): 601-614
- **p53 arrests growth and induces differentiation of v-Myb-transformed monoblasts** *DIFFERENTIATION*
  Navratilova, J., Horvath, V., Kozubik, A., Lojek, A., Lipsick, J., Smarda, J.
  2007; 75 (7): 592-604
- **Loss of Drosophila Myb interrupts the progression of chromosome condensation** *NATURE CELL BIOLOGY*
  Manak, R., Wen, H., Van, T., Andrejka, L., Lipsick, J. S.
  2007; 9 (5): 581-U177
- **v-Myb represses the transcription of Ets-2** *ONCOGENE*
  Wang, D., Sevcikova, S., Wen, H., Roberts, S., Lipsick, J. S.
  2007; 26 (8): 1238-1244
- **Myb proteins inhibit fibroblast transformation by v-Rel** *MOLECULAR CANCER*
  Fu, S., Ganter, B., Lipsick, J. S.
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- **Functional evolution of the vertebrate Myb gene family: B-Myb, but neither A-Myb nor C-Myb, complements drosophila Myb in hemocytes** *GENETICS*
  Davidson, C. J., Tirouvanziam, R., Herzenberg, L. A., Lipsick, J. S.
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- **synMuv verite - Myb comes into focus** *GENES & DEVELOPMENT*
  Lipsick, J. S.
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- **Fluorescence-activated cell sorting (FACS) of Drosophila hemocytes reveals important functional similarities to mammalian leukocytes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Tirouvanziam, R., Davidson, C. J., Lipsick, J. S., Herzenberg, L. A.
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  Beall, E. L., Manak, J. R., Zhou, S., Bell, M., Lipsick, J. S., Botchan, M. R.
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  Wang, D. M., Lipsick, J. S.
  2002; 21 (10): 1611-1615
- **Functional evolution of the Myb oncogene family** *2nd International Workshop on Myb Genes (Myb 2000)*
  Lipsick, J. S., Manak, J., Mitiku, N., Chen, C. K., Fogarty, P., Guthrie, E.
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  Ladendorff, N. E., Wu, S., Lipsick, J. S.
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- **BS69, an adenovirus E1A-associated protein binds to and inhibits the transcriptional activity of c-Myb** *Oncogene*
  Lipsick, J.S, Ladendorff, N.E., Wu, S.
  2001; 20

- **Transcriptional activation by the Myb proteins requires a specific local promoter structure** *FEBS LETTERS*
  Ganter, B., Chao, S. T., Lipsick, J. S.
  1999; 460 (3): 401-410

- **Functional analysis of carboxy-terminal deletion mutants of c-Myb** *JOURNAL OF VIROLOGY*
  Wang, D. M., Dubendorff, J. W., Woo, C. H., Lipsick, J. S.
  1999; 73 (7): 5875-5886

- **Transcriptional regulation by the carboxyl terminus of c-Myb depends upon both the Myb DNA-binding domain and the DNA recognition site** *ONCOGENE*
  Dubendorff, J. W., Lipsick, J. S.
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- **Transformation by v-Myb** *ONCOGENE*
  Lipsick, J. S., Wang, D. M.
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- **Myb and oncogenesis** *ADVANCES IN CANCER RESEARCH, VOL 76*
  Ganter, B., Lipsick, J. S.
  1999; 76: 21-60

- **Overexpression of an alternatively spliced form of c-Myb results in increases in transactivation and transforms avian myelomonoblasts** *JOURNAL OF VIROLOGY*
  Woo, C. H., Sopchak, L., Lipsick, J. S.
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- **Myb-related Schizosaccharomyces pombe cdc5p is structurally and functionally conserved in eukaryotes** *MOLECULAR AND CELLULAR BIOLOGY*
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  Ganter, B., Fu, S. L., Lipsick, J. S.
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- **Myb binding sites within the N-ras promoter repress transcription** *ONCOGENE*
  Ganter, B., Lipsick, J. S.
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- **Cells transformed by a v-Myb-estrogen receptor fusion differentiate into multinucleated giant cells** *JOURNAL OF VIROLOGY*
  Engelke, U., Wang, D. M., Lipsick, J. S.
  1997; 71 (5): 3760-3766

- **Constitutive expression of full-length c-Myb transforms avian cells characteristic of both the monocytic and granulocytic lineages** *CELL GROWTH & DIFFERENTIATION*
  Fu, S. L., Lipsick, J. S.
  1997; 8 (1): 35-45

- **FAETL motif required for leukemic transformation by v-Myb** *JOURNAL OF VIROLOGY*
  Fu, S. L., Lipsick, J. S.
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  Lipsick, J. S.
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  CHEN, R. H., Fields, S., Lipsick, J. S.
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- **BYPASS OF TPA-INDUCED DIFFERENTIATION AND CELL-CYCLE ARREST BY THE C-MYB DNA-BINDING DOMAIN** *ONCOGENE*
  Engelke, U., Smarda, J., Lipsick, J. S.
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- **RETINOIC ACID RECEPTOR-ALPHA SUPPRESSES TRANSFORMATION BY V-MYB** *MOLECULAR AND CELLULAR BIOLOGY*
  Smarda, J., Sugarman, J., Glass, C., Lipsick, J.
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- **WEAK TRANSCRIPTIONAL ACTIVATION IS SUFFICIENT FOR TRANSFORMATION BY V-MYB** *VIROLOGY*
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- **MUTATIONS IN THE DNA-BINDING AND TRANSCRIPTIONAL ACTIVATION DOMAINS OF V-MYB COOPERATE IN TRANSFORMATION** *JOURNAL OF VIROLOGY*
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- **TRANSFORMATION OF MYELOMONOCYTIC CELLS BY THE AVIAN-MYELOBLASTOSIS VIRUS IS DETERMINED BY THE V-MYB ONCOGENE, NOT BY THE UNIQUE LONG TERMINAL REPEATS OF THE VIRUS** *JOURNAL OF VIROLOGY*
  Engelke, U., Lipsick, J. S.
  1994; 68 (4): 2752-2755
- **C-MYB PREVENTS TPA-INDUCED DIFFERENTIATION AND CELL-DEATH IN V-MYB TRANSFORMED MONOBLASTS** *ONCOGENE*
  Smarda, J., Lipsick, J. S.
  1994; 9 (1): 237-245
- **DICISTRONIC SELECTION FOR NUCLEAR PROTEINS IN LIVING ANIMAL-CELLS** *GENE*
  Smarda, J., Lipsick, J. S.
  1993; 137 (1): 145-149
- **INDIVIDUAL REPEATS OF DROSOPHILA MYB CAN FUNCTION IN TRANSFORMATION BY V-MYB** *JOURNAL OF VIROLOGY*
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- **ONCOGENIC TRUNCATION OF THE 1ST REPEAT OF C-MYB DECREASES DNA-BINDING IN-VITRO AND IN-VIVO** *MOLECULAR AND CELLULAR BIOLOGY*
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- **C-MYB AND V-MYB ARE DIFFERENTIALLY PHOSPHORYLATED BY P42MAPK IN-VITRO** *ONCOGENE*
  Aziz, N., Wu, J., Dubendorff, J. W., Lipsick, J. S., Sturgill, T. W., Bender, T. P.
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- **DIFFERENTIAL TRANSCRIPTIONAL ACTIVATION BY V-MYB AND C-MYB IN ANIMAL-CELLS AND SACCHAROMYCES-CEREVISIAE** *MOLECULAR AND CELLULAR BIOLOGY*
  CHEN, R. H., Lipsick, J. S.
  1993; 13 (7): 4423-4431
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  Dubendorff, J. W., Whittaker, L. J., ELTMAN, J. T., Lipsick, J. S.
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  Grasser, F. A., LaMontagne, K., Whittaker, L., Stohr, S., Lipsick, J. S.

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- **EXPRESSION OF THE CD4 GENE REQUIRES A MYB TRANSCRIPTION FACTOR** *MOLECULAR AND CELLULAR BIOLOGY*
  SIU, G., Wurster, A. L., Lipsick, J. S., HEDRICK, S. M.
  1992; 12 (4): 1592-1604
- **THE MYB DNA-BINDING DOMAIN IS HIGHLY CONSERVED IN DICTYOSTELIUM-DISCOIDEUM** *ONCOGENE*
  STOBERGRASSER, U., BRYDOLF, B., Bin, X., Grasser, F., Firtel, R. A., Lipsick, J. S.
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- **DEFINITION OF FUNCTIONAL DOMAINS IN P135GAG-MYB-ETS AND P48V-MYB PROTEINS REQUIRED TO MAINTAIN THE RESPONSE OF NEURORETINA CELLS TO BASIC FIBROBLAST GROWTH-FACTOR** *JOURNAL OF VIROLOGY*
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- **PROTEIN TRUNCATION IS REQUIRED FOR THE ACTIVATION OF THE C-MYB PROTOONCOGENE** *MOLECULAR AND CELLULAR BIOLOGY*
  Grasser, F. A., Graf, T., Lipsick, J. S.
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- **DETERMINANTS OF SEQUENCE-SPECIFIC DNA-BINDING BY P48V-MYB** *ONCOGENE*
  Garcia, A., LaMontagne, K., REAVIS, D., STOBERGRASSER, U., Lipsick, J. S.
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  Lane, T., IBANEZ, C., Garcia, A., Graf, T., Lipsick, J.
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  STOBERGRASSER, U., Lipsick, J. S.
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- **V-MYB DOES NOT PREVENT THE EXPRESSION OF C-MYB IN AVIAN ERYTHROBLASTS** *JOURNAL OF VIROLOGY*
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  Lipsick, J. S., Baluda, M. A.
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- **BIOLOGICALLY-ACTIVE PROVIRAL CLONE OF MYELOBLASTOSIS-ASSOCIATED VIRUS TYPE-1 - IMPLICATIONS FOR THE GENESIS OF AVIAN-MYELOBLASTOSIS VIRUS** *JOURNAL OF VIROLOGY*
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