

CURRICULUM VITAE

Michael Paul Sherman, MD, PhD

OWNER/FOUNDER, CONTRA COSTA ONCOLOGY

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ADDITIONAL OFFICES

5601 Norris Canyon Road, Suite 340, San Ramon, CA
1210 Rossmoor Parkway, Walnut Creek, CA
1220 Rossmoor Parkway, Walnut Creek, CA
2339 Almond Avenue, Concord, CA

UNDERGRADUATE EDUCATION

1983–1987 Cornell University, Ithaca, NY
B.S. with Honors and Distinction, Microbiology

MEDICAL EDUCATION

1987–1994 M.D., Ph.D., State University of New York, Health Science Center at Syracuse
(SUNY-HSC) Medical/Graduate School
Ph.D. Thesis: "Applications and Variations of Polymerase Chain
Reaction for the Detection and Characterization of Retroviruses."
Supervisor: Dr. Bernard J. Poiesz; Chief, Medical Oncology

MEDICAL TRAINING

7/94–6/95 Internship: Internal Medicine, Johns Hopkins Hospital, Baltimore, MD
6/95–6/96 Residency: Internal Medicine, Johns Hopkins Hospital, Baltimore, MD
7/1/96–5/00 Fellowship: Medical Oncology, University of California, San Francisco (UCSF)
8/97–5/00 Fellowship (Postdoctoral): Laboratory of Dr. Warner C. Greene, Gladstone
Institute of Virology & Immunology, UCSF

PROFESSIONAL POSITIONS

2/05-present Owner and Founder, Contra Costa Oncology
9/02–1/05 Oncologist, Private Practice, Diablo Valley Oncology & Hematology Medical
Group, Walnut Creek, CA
8/1/00–9/02 Assistant Clinical Professor of Medicine, UCSF; Oncology Attending, SFGH
3/01–12/02 Staff Scientist, Gladstone Institute of Virology & Immunology
5/00–2/01 Research Scientist, Gladstone Institute of Virology & Immunology

HONORS AND AWARDS

- 1981 Honors Award, Westinghouse Science Talent Search
- 1984 Fellowship, Muscular Dystrophy Association for Research, Columbia Presbyterian Medical Center, New York
- 1985 Cornell University Varsity Letter in Football
- 1986 Elected to the Honor Society, Cornell University
- 1987 Dean's List for Six Semesters, Cornell University
Graduated Cornell University with Distinction for Finishing in the Top 10%
Graduated Cornell with Honors for Completing a Senior Honors Thesis
- 1990 First Place, Alpha Omega Alpha Research Forum, HSC at Syracuse
Fellowship from the American Heart Association
Young Investigator Award, International Society of Hematology
- 1991 Fellowship from the American Heart Association
- 1992 First Place, Alpha Omega Alpha Research Forum, HSC at Syracuse
- 1993 Inducted into the New York Gamma Chapter of Alpha Omega Alpha
- 1994 The Paul A. Bunn, MD Award for Excellence in the Area of Infectious Diseases, SUNY-HSC at Syracuse
Letter of Commendation from the Academic Promotions Committee for the academic year 1993-1994 from SUNY-HSC at Syracuse
Honor Award for successful completion of the academic research program at SUNY-HSC at Syracuse
John Bernard Henry, MD Endowed Scholarship for Biomedical Education & Research in the Health Professions; Award for both Medical & Graduate Colleges
- 1996 Diplomat of the National Board of Medical Examiners
- 2000 Cornelius L. Hopper Award for the Finest Abstract by a Young Investigator, presented at the Third Annual Conference on AIDS Research in California by the University Wide AIDS Research Program
- 2002 Travel Award, for an invited talk at the 9th Conference on Retroviruses and Opportunistic Infections Seattle, WA
- 2002 Travel Award for invited talk at the Keystone Symposium on HIV Pathogenesis: "Recent Advances in the Biology and Pathogenesis of Primate Lentiviruses"

HOSPITAL POSITIONS

Member, Medical Ethics Committee, San Ramon Regional Medical Center

Member, Blood Usage Committee, San Ramon Regional Medical Center

CLINICAL TRIALS

Primary Investigator: Farnesyl Transferase Inhibitor Zarnestra[®] (tipifarnib, R115777) in patients with Relapsed-Refractory AML R115777-INT-20 WIRB[®] Protocol #20061074

SPONSOR: Johnson & Johnson Pharmaceutical Research and Development, L.L.C. Raritan, New Jersey, United States

Primary Investigator: A multi-center, open label, Randomized Phase 2 Clinical Trial Evaluating Safety and Efficacy of FOLFIRI with Either Panitumumab or Bevacizumab as Second-line Treatment in Subjects with Metastatic Colorectal Cancer
SPONSOR: Amgen protocol #20060141

PATENTS

Compositions and Methods for Delivering a Molecule into a Cell
U.S. Patent; serial numbers 60/206,610 and 60/267,827.

Methods for Inhibiting Lentivirus Replication.
U.S. Patent Pending; serial numbers 60/206,610 and 60/267,827.

Cyclophilin is Required for HIV-1 Vpr Stability.
U.S. Patent Pending; serial numbers 10/285,263

FUNDING/GRANTS

3/01–12/02: Principle Investigator: KO8AI01866-01 "Analysis of HIV Vpr Action in Lymphoid Histoculture"

9/00–2/01: NIH T32 Biology of Infectious Diseases Training Program UCSF, Department of Infectious Diseases

6/97–5/99: NIH T32 AIDS Research Training Program UCSF, Department of Medicine

SPEAKING FACULTY:

Amgen
Aventis Sanofi-Syntheco
Bristol-Myers Squibb
Genentech BioOncology
Pfizer
The Leukemia & Lymphoma Society

CERTIFICATIONS

2009	Recertified for Medical Oncology through 2019
2008	Recertified for Internal medicine through 2018
1999	Board Certified in Medical Oncology, American Board of Internal Medicine
1998	Board Certified in Internal Medicine, American Board of Internal Medicine

MEMBERSHIPS

American Medical Association
American Association for the Advancement of Science
Alpha Omega Alpha Honor Society
American Society of Clinical Oncology
Alameda Contra Costa Medical Association

PUBLICATIONS

1. **Sherman, M.P.**, G.D. Ehrlich, J.F. Ferrer, J.J. Sninsky, R. Zandomeni, N.L. Dock, and B.J. Poiesz. 1992. Amplification and analysis of specific DNA and RNA sequences of bovine leukemia virus from infected cows by polymerase chain reaction. *J. Clin. Microbiol.* 30: 185–191
2. Ehrlich, G.D., J. Andrews, **M.P. Sherman**, S.J. Greenberg, and B.J. Poiesz. 1992. DNA sequence analysis of the HTLV–I p21E transmembrane protein gene reveals intra– and inter–isolate genetic heterogeneity. *Virology* 186: 619–627.
3. **Sherman, M.P.**, N.K. Saksena, D.K. Dube, R. Yanagihara, and B.J. Poiesz. 1992. Evolutionary insights on the origin of human T–cell lymphoma/leukemia virus type I (HTLV–I) derived from sequence analysis of a new HTLV–I variant from Papua New Guinea. *J. Virology* 66: 2556–2563.
4. Saksena, N.K., **M.P. Sherman**, R. Yanagihara, D.K. Dube, and B.J. Poiesz. 1992. LTR sequence and phylogenetic analyses of a newly discovered variant of HTLV–I isolated from the Hagahai of Papua New Guinea. *Virology*, 189: 1–9.
5. Iannone, R., **M.P. Sherman**, P.E.B. Rodgers–Johnson, M.A. Beilke, C.A. Beilke, C.A. Mora, R.M. Amin, S.R. Tinsley, L.D. Papsidero, B.J. Poiesz, and C.J. Gibbs. 1992. HTLV–I DNA sequences in CNS tissue of a patient with tropical spastic paraparesis and HTLV–I–associated myelopathy. *J. AIDS* 5: 810–816.
6. Loughran, T.P., T. Coyle, **M.P. Sherman**, G. Starkebaum, G.D. Ehrlich, F.W. Ruscetti, and B.J. Poiesz. 1992. Detection of human T–cell leukemia/lymphoma virus type II in a patient with LGL leukemia. *Blood* 5: 1116–1119.
7. Saksena, N.K., V. Hervé, **M.P. Sherman**, J.P. Durand, C. Mathiot, M. Müller, J.L. Love, D.K. Dube, and B.J. Poiesz. 1993. Sequence and phylogenetic analysis of a new STLV–I from a naturally infected Tantalus monkey from Central Africa. *Virology* 192: 312–320.
8. Dube, D.K., **M.P. Sherman**, N.K. Saksena, V. Bryz–Gornia, J. Mendelson, J. Love, C.B. Arnold, T. Spicer, J.B. Glaser, A.E. Williams, M. Nishimura, S. Jacobsen, and B.J. Poiesz. 1993. Genetic Heterogeneity in human T–cell leukemia/lymphoma virus type II. *J. Virology* 67: 1175–1184.
9. **Sherman, M.P.**, S. Dube, T.P. Spicer, T.D. Kane, J.L. Love, R. Iannone, C.J. Gibbs, R. Yanagihara, D.K. Dube, and B.J. Poiesz. 1993. Sequence analysis of an immunogenic and neutralizing domain of the Human T–Cell lymphoma/Leukemia Virus Type I (HTLV–I) gp46 extracellular membrane protein from a patient with both HTLV–I associated myelopathy and adult T–cell leukemia. *Cancer Research* 53: 6067–6073.
10. Ferrer, J.F., N. Del Pino, E. Esteban, **M.P. Sherman**, S. Dube, D.K. Dube, M.A. Basombrio, E. Pimentel, A. Segovia, S. Quirulas, and B.J. Poiesz. 1993. High rate of infection with human T–cell leukemia retrovirus type II in four Indian populations of Argentina. *Virology* 197: 576–584.
11. Saksena, N.K., V. Herve, J.P. Durand, B. LeGuanno, O.M. Diop, J.P. Digoutte, C. Mathiot, M.C. Muller, J.L. Love, S. Dube, **M.P. Sherman**, P.M. Benz, S. Erensoy, A. Galat–Luong, G. Galat, B. Paul, D.K. Dube, F. Barre–Sinoussi, and B.J. Poiesz. 1993. Seroepidemiologic, molecular, and phylogenetic analyses of simian T–cell leukemia viruses (STLV–I) from

various naturally infected monkey species from central and western Africa. *Virology* 198: 297–310.

12. **Sherman, M.P.**, D.K. Dube, N.K. Saksena, and B.J. Poiesz. Human T–Cell Lymphoma/Leukemia Viruses and Malignancy. 1993. In: Leukemia: Advances in Research and Treatment (E.J. Freireich and H. Kantarjian, eds.), Kluwer Academic Publishers, Norwell, MA. pp. 79–103., G. Starkebaum, and B.J. Poiesz. 1994. Seroreactivity to HTLV–I/II proteins in patients with LGL leukemia. *Leukemia Research* 18: 423–429.
13. **Sherman, M.P.**, R.M. Amin, P.E.B. Rodgers–Johnson, O.S.C. Morgan, G. Char, C.A. Mora, R. Iannone, G.H. Collins, L. Papsidero, C.J. Gibbs, and B.J. Poiesz. 1994. Identification of Human T–cell leukemia/lymphoma virus type I antibodies, DNA, and protein in patients with polymyositis. *Arthritis and Rheumatism* 38: 690–698.
14. **Sherman, M.P.**, N.L. Dock, G.D. Ehrlich, J.J. Sninsky, C. Brothers, J. Gillsdorf, V. Bryz–Gornia, and B.J. Poiesz. 1994. Evaluation of HIV type 1 Western blot–indeterminate blood donors for the presence of human or bovine retroviruses. *AIDS Res. Hum. Retro.* 11: 409–414.
15. Esteban, E.N., **M.P. Sherman**, B.J. Poiesz, Marshak, D.J. Waters, and J.F. Ferrer. 1996. Transmission of Human T–cell leukemia virus type I to sheep: Antibody profile and detection of viral DNA sequences. *AIDS Res. Hum. Retro.* 12: 1717–1724.
16. **Sherman, M.P.**, C. M. C. de Noronha, D. Pearce and W. C. Greene. 2000. HIV–1 Vpr Contains Two Leucine–rich Putative Helices That Function As Glucocorticoid Receptor Coactivator Domains. *J. Virology* 74: 15–21.
17. Henklein*, P., K. Bruns*, **M.P. Sherman***, Tessmer, K. Licha, J. Kopp, C. M.C. de Noronha, W. C. Greene, V. Wray, and U. Schubert. 2000. Functional and Structural characterization of synthetic Vpr from HIV–1 that transduces cells, localizes to the nucleus and induces G₂ cell cycle arrest. *J. Biol. Chem.* 275(41):32016–26 *Authors Contributed equally
18. Poiesz, B.J., L.D. Papsidero, G. Ehrlich, **M. Sherman**, S. Dube, K. Dillon, F.W. Ruscetti, D. Slamon, C. Fang, A. Williams, D. Duggan, J. Glaser, A. Gottlieb, J. Goldberg, L. Ratner, P. Philips, T. Han, A. Friedman–Kien, F. Siegal, K. Rai, A. Sawitsky, J. Sninsky, L.W.A. Shermata, H. Dosik, C. Cunningham, and R. Montagna. 2001. The prevalence of Human Retroviruses in various patient populations, retroviral risk groups and healthy blood donors in the United States. *American J. Hematology* 66:32–38.
19. **Sherman, M. P.**, C. M.C. de Noronha, M. Heusch, S. Greene, W.C. Greene. 2001. Characterization of Nuclear Import and Export of HIV–1 Vpr. *J. Virology* 75:1522–1532.
20. de Noronha, C.M.C., **M.P. Sherman**, H.W. Lin, M. Cavrois, R.D. Moir, R.D. Goldman, and W.C. Greene. 2001. HIV-1 Vpr induces dynamic disruptions in nuclear envelope architecture and integrity. *Science* 294:1105–1108.
21. Eckstein, D.A., M.L. Penn, Y.D. Korin, D.D. Scripture–Adams, J.A. Zack, J.F. Kreisberg, M. Roederer, **M.P. Sherman**, C.R. Klein, P. Chin, and M.A. Goldsmith. 2001. HIV–1 actively replicates in naive CD4⁺ T–cells residing within human lymphoid tissue. *Immunity* 15:671–682
22. Eckstein*, D., **M.P. Sherman***, M. Penn, C.M.C. de Noronha, W.C. Greene and M. Goldsmith. 2001. HIV-1 Vpr enhances viral burden by facilitating infection of tissue macrophages but does not contribute to productive infection of non-dividing naive T-cells. *J. Ex. Med.* 194:1407–1419. *Authors Contributed equally

23. **Sherman, M.P.**, U. Schubert, S.W. Williams, P. Heinklein, C.M.C. de Noronha, and W.C. Greene. 2002. HIV-1 Vpr Displays Natural Protein Transducing Properties: Implications for viral pathogenesis. *Virology* 302:95-105
24. **Sherman, M.P.**, D. Eckstein, J. Hataye, S.A. Williams, C.M.C. de Noronha and W.C. Greene. HIV-1 Vpr export is required for virion incorporation and efficient macrophage infection in lymphoid histoculture. 2003. *J. Virology* Jul; 77(13):7582-9.
25. Zander, * K., **M. P. Sherman***, U. Tessmer*, K. Bruns, V. Wray, A.T. Prechtel, E. Schubert, P. Henklein, J. Luban, J. Neidleman, W.C. Greene, and U. Schubert . Cyclophilin A interacts with HIV-1 Vpr and is required for its functional expression. 2003. *J Biol Chem.* 2003 Oct 31;278(44):43202-13 *Authors Contributed equally
26. Zimmerman ES, **Sherman MP**, Blackett JL, Neidleman JA, Kreis C, Mundt P, Williams SA, Warmerdam M, Kahn J, Hecht FM, Grant RM, de Noronha CM, Weyrich AS, Greene WC, Planelles V. Human immunodeficiency virus type 1 Vpr induces DNA replication stress in vitro and in vivo. *J Virol.* 2006 Nov; 80(21):10407-18.

REVIEWS AND CHAPTERS

1. **Sherman, M.P.** and B.J. Poiesz. Insights Into HTLV-I Structure, Function, and Evolution. 1992. In: Kaleidoscope, Monogram of Medicine (Sergio Rassu, ed.), Medical Systems S.p.A., Genoa, Italy p.1–52.
2. Poiesz, B.P., **M.P. Sherman**, N.K. Saksena, D. Dube, B. Paul, S. Erensoy, S. Dube, N. Fan, J. Gavalchin, and M. Lane. The biology and epidemiology of the primate T–cell lymphoma/leukemia viruses. 1992. *J. Preventive Medicine and Hygiene.* 32(s): 7–8.
3. **Sherman, M.P.** and B.J. Poiesz. Cytokines and Human Retroviruses. 1993. In: Clinical Applications of Cytokines: Role in Pathogenesis, Diagnosis and Therapy (J.J. Oppenheim, J.L. Rossio, A.J.H. Gearing, Eds.), Oxford University Press, New York. pp.93–103.
4. Poiesz, B.J., **M.P. Sherman**, N.K. Saksena, D.K. Dube, S. Dube, J. Gavalchin, N. Fan, M. Lane, and B. Paul. 1993. The Biology and Epidemiology of the Human T–Cell Lymphoma/Leukemia Viruses. In: Frontiers of Infectious Diseases. Focus on HIV. (H.C. Neu, J. Levy, and R. Weiss, Eds.) Churchill Livingstone Publishers, London. pp. 189–205.
5. Dube, D.K., S. Dube, **M.P. Sherman**, J. Love, N.K. Saksena, W.J. Harrington Jr., J.F. Ferrer, L. Papsidero, L. Dyster, R. Yanagihara, A.E. Williams, J.B. Glaser, V.M.A. Herve, F. Barre–Sinoussi, B.S. Blumberg, and B.J. Poiesz. 1994. Genetic heterogeneity in primate T–cell lymphoma/leukemia viruses. In: Methods in Neuroscience; PCR in Neuroscience (G. Sarkar, Ed.). Academic Press Inc. New York. Pp. 358–379.
6. **Sherman, M.P.**, S. Dube, D.K. Dube, and B.J. Poiesz. 1994. Virally Induced T-Cell Malignancies and Associated Diseases. In: Clinical Immunology: Principles and Practice, Ed. 1. (R.A. Rich, ed.). Mosby–Year Book, Inc., St. Louis. pp. 1785–1800.
7. **Sherman, M.P.** and W.C. Greene. 2001. Slipping Through the Door: HIV Entry into the Nucleus. *Microbes and Infection* 4:67–73.
8. **Sherman, M.P.**, C.M.C. de Noronha, S.A. Williams and W.C. Greene. 2002. Insights into the biology of HIV-1 viral protein R. *DNA and Cell Biol.* 21:679-688.