

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
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NAME Recht, Lawrence D.		POSITION TITLE Professor of Neurology and Surgery (Neurosurgery)	
eRA COMMONS USER NAME DRECHT			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
New York University	B.A.	1973	Biology
Columbia College of Physicians & Surgeons	M.D.	1977	Medicine

**A. Positions and Honors****Post-Graduate Education**

1977-1979 Internal Medicine, University of MN Hospitals  
1979-1982 Residency in Neurology, Neurological Institute of New York  
1982-1984 Fellow in Neurology, Memorial Sloan Kettering Cancer Center

**Faculty Appointments**

1984-1995 Asst Prof, then Assoc Prof, Dept of Neurology, Umass Medical Center  
1995-2003 Professor of Neurology & Neurosurgery, UMMC  
1995-2003 Associate Director, UMMC Cancer Center  
2003- Professor of Neurology and Clinical Neurosciences, Stanford University Medical Center

**Awards and other Professional Activities**

1977 Titus Munson Research Award, College of Physicians and Surgeons; 1992-1998 Member, Quality Standard Subcommittee for American Academy of Neurology, "Management of the low grade glioma"; 1994- Member, Medical Advisory Board, The Brain Tumor Society, Boston, MA; 1995 Elected Member, American Neurological Assn; 1998, 2002 Best Doctors in America; 1998, Member, AAN Scientific Program Subcommittee and Topic Chair for Neuro-Oncology; 1998-2000 Member, Quality Standard Subcommittee for Joint Tumor Section of CNS on "Management of single brain metastasis"; 2002 Member, NCI Program Project Site Review Committee and Reporter to Parent Committee C

**B. Selected peer-reviewed publications**

**Recht L**, Torres C, Smith T, Raso V, Griffin T. Transferrin receptor in normal and neoplastic brain tissue: Implications for brain tumor immunotherapy. *J Neurosurgery* 1990;**72**:941-945  
**Recht LD**, Griffin TW, Raso V, Salimi AR. Potent cytotoxicity of an antihuman transferrin receptor-ricin A chain immunotoxin on human glioma cells in vitro. *Cancer Research* 1990;**50**:6696-6700  
**Recht LD**, Smith TW, Lew RA. Suspected low grade glioma: How safe is deferring treatment? *Ann Neurology* 1992;**31**:431-436  
Krishna M, Smith TW, **Recht LD**. *Bcl-2* expression in reactive and neoplastic astrocytes. Lack of correlation with presence or degree of malignancy, *J Neurosurgery* 1995;**83**:1017-1022  
**Recht LD**, Raso V, Davis R, Salmons R. Immunotoxin sensitivity of CHO cells expressing human transferrin receptors with differing internalization rates. *Cancer Immunol Immunother* 1996;**42**:357-361  
Lachyankar MB, Ross AH, Litofsky NS, Condon PJ, Quesenberry PJ, **Recht LD**. TrkA expression enhances survival of rats with intracerebral C6 gliomas. *Cancer Research* 1997;**57**:532-536  
Lachyankar MB, Condon PJ, Quesenberry PJ, Litofsky NS, **Recht LD**, Ross AH. Embryonic precursor cells that express Trk receptors: Induction of different cell fates by NGF, BDNF, NT-3 and CNTF, *Experimental Neurology* 1997;**144**:350-360

- Hulspas R, Tiarks C, Reilly J, Hsieh C-C., **Recht, L**, Quesenberry PJ. In vitro cell density dependent clonal growth of EGF responsive murine neural precursor cells under serum-free conditions, *Experimental Neurology* 1997; **148**: 147-156
- Glantz MJ, Cole BF, Glantz L, Cobb J, Mills P, Lekos A, Walters BC, **Recht LD**. Cerebrospinal fluid cytology in patients with cancer: How to minimize false negative results. *Cancer* 1998;**82**:733-739
- Glantz MJ, Cole BF, **Recht LD**, Akerley W, Mills P, Saris S, Hochberg F, Calabresi P, Egorin MJ. High dose intravenous methotrexate for patients with leptomeningeal carcinomatosis: Is intrathecal chemotherapy necessary? *J Clinical Oncology* 1998;**16**:1561-1567
- Litofsky NS, Mix T, Baker SP, **Recht L**, Smith TW. Ki-67 (Clone MIB-1) proliferation index does not correlate with survival as an independent variable in recurrent glial neoplasms. *Surg Neurology* 1998;**50**:579-585
- Low Grade Glioma Guidelines Team (**L. Recht**, co-chair). Practice parameters in adults with suspected or known supratentorial nonoptic pathway low-grade glioma. *Neurosurgical Focus* 1998;**4**(6): Article 10
- Lachyankar MB, Sultana N, Schonhoff CM, Mitra P, Poluha W, Lambert S, Quesenberry PJ, Litofsky NS, **Recht LD**, Nabi R, Miller SJ, Ohta S, Neel BG, Ross AH. A role for nuclear PTEN in neuronal differentiation. *J Neuroscience*, 2000;**20**:1404-1413
- Benoit BO, Savarese T, Joly M, Engstrom CM, Pang L, Reilly J, Recht LD, Ross AH, Quesenberry PJ. Neurotrophin channeling of neural progenitor cell differentiation. *J Neurobiology* 2001;**46**:265-280
- Recht LD**, Salmonsens R, Rosetti R, Jang T, Pipia GG, Kubiowski T, Karim P, Ross AH, Zurier R, Litofsky NS, Burstein S. Antitumor effects of ajulemic acid (CT3), a synthetic non-psychoactive cannabinoid. *Biochemical Pharmacology* 2001;**62**:755-763
- Kubiowski T, Jang TJ, Lachyankar MB, Salmonsens R, Nabi RR, Quesenberry PJ, Litofsky NS, Ross AH, **Recht LD**. Increased phosphatidylinositol 3-kinase (PI3-K) signaling is associated with increased invasiveness and gelatinase activity in rapidly growing gliomas. *J Neurosurgery* 2001;**95**:480-488
- Li L, Liu F, Salmonsens RA, Turner TK, Gerstein RM, Litofsky NS, Di Cristofano A, Pandolfi PP, Jones SN, **Recht LD**, Ross AH. PTEN in neural stem cells: Regulation of migration, survival and transplantation, *Molecular & Cellular Neurosci*, 2002;**20**:21-29
- Engstrom EM, Demers D, Dooner M, McAuliffe C, Benoit BO, Stencl K, Joly M, Hulspas R, Reilly JL, Savarese T, **Recht LD**, Ross AH, Quesenberry PJ. A method for clonal analysis of epidermal growth factor-responsive neural progenitors. *J Neurosci Methods* 2002;**117**:111-121
- Recht L**, Jang T, Savarese T, Litofsky NS. Neural stem cells and neuro-oncology: Quo vadis? *J Cellular Biochemistry*, 2003;**88**:11-19
- Jang T, Litofsky NS, Ross AH, **Recht LD**. Aberrant nestin expression during ethylnitrosourea-(ENU)-induced neurocarcinogenesis, *Neurobiology of Disease* 2004;**15**:544-552
- Gréco B, Low HP, Johnson E, Salmonsens RA, Gallant J, Jones SN, Ross AH, **Recht LD**. Differentiation prevents assessment of neural stem cell pluripotency after blastocyst injection, *Stem Cells*, 2004;**22**:600-608
- Savarese TM, Jang T, Low HP, Salmonsens R, Litofsky NS, Matijasevic Z, Ross AH, Recht LD. Candidate glioma precursor cells: Isolation of immortalized, INK4a/ARF-deficient cells from the subventricular zone after in utero N-ethyl-N-nitrosourea exposure, *J Neurosurgery* 2005;**102**:98-108
- Jang T, Recht L. Experimental Models for the study of CNS Tumors. In, Tatlisumak T, Fisher M (eds), *Handbook of Experimental Neurology: Methods and Techniques in Animal Research*, *in press*
- Bredel M, Bredel C, Juric D, Kim Y, Vogel H, Harsh GR, Recht LD, Pollack JR, Sikic BI. Amplification of whole tumor genomes and gene-by-gene mapping of genomic aberrations from limited sources of fresh-frozen and paraffin-embedded DNA. *J Molec Diagnostics* 2005; **7**: 171-82
- Bredel M, Bredel C, Juric D, Harsh GR, Vogel H, Recht LD, Sikic BI. High-resolution genome-wide mapping of genetic alterations in human glial brain tumors. *Cancer Res* 2005; **65**: 4088-96
- Recht L, Harsh G, Fisher P, Vogel H. Low Grade Gliomas. In, Dropcho E, Rees J (eds), *Neuro-Oncology*, Blue Books in Practical Neurology, Butterworth-Heinemann, *in press*

### C. Research Support

#### Ongoing Research Support

R01 NS43870 Recht (PI) 9/30/01-7/31/05

NINDS

Stem Cell Plasticity after Blastocyst Implantation

This project assesses the somatic plasticity of somatic stem cells after implantation into blastocysts.

Role: PI (10% effort)

Ludwig Translational Program in Cancer Research

Recht (PI) 1/1/04-12/31/06

Combined intratumoral injection of bone marrow-derived dendritic cells (DCs) and systemic chemotherapy to treat established experimental malignant glioma

This project assesses the efficacy of dendritic cells administered after sublethal doses or radiation or chemotherapy to both transplanted and induced malignant glioma.

Role: PI (No salary support)

#### Pending Research Support

R01 NS052584 Recht (PI) 7/1/05-6/30/10

NINDS

Promoting Glioma

This project assesses the natural history of ENU-induced gliomas, especially in the time interval between the administration of the carcinogen and the development of macroscopic gliomas several months later.

Role: PI (10% effort)

R21 NS053775 Recht (PI) 9/1/05-8/31/07

NINDS

CDOn: A Novel Marker of Neural Stem Cells

The project addresses the potential role of a novel sonic hedgehog receptor molecule as a marker of neural stem cells.

Role: PI (5% effort)

James S. McDonnell Foundation 7/1/05-6/30/08

Recht (PI)

The Role of the Local Microenvironment in Gliomagenesis

This project proposes to assess the extent to which glioma development depends on its local environment.

Role: PI (5% effort)

#### Completed Research Support

1P01 CA68426 Recht (PI) 1/1/98-12/31/03

NCI

Neural Stem Cells and Neuro-Oncology

Role: PI

Recht (PI) 2001

Worcester Foundation of Experimental Biology

Stem Cell Plasticity after Blastocyst Implantation

Role: PI