

CURRICULUM VITA

STEVEN K. JACOBS, M.D., Ph.D.

EDUCATION:

1970-1973 B.A. in Physiology
University of California
Berkeley, California

1973-1978 Ph.D. in Immunology
State University of New York
School of Medicine
Buffalo, New York

1976-1980 M.D.
State University of New York
School of Medicine
Buffalo, New York

ACTIVITIES AND POSITIONS:

Intern Univ. of Iowa Hosp and Clinics - 7/80-12/81
Resident (Neurosurgery) Univ. of Iowa Hosp and Clinics 1/82 – 12/86
Senior Staff Fellow - National Instit. of Health (NIH) - 6/84-12/85
Assistant Clinical Professor of Neurosurgery - Albert Einstein Coll. of
Med 1/87 - 9/88
Staff Surgeon - Atlanta Medical Center 11/88 – 10/01
Staff Surgeon - Northlake Regional Medical Center, Tucker, GA (hospital
closed) 12/88-8/01
Staff Surgeon - Rockdale Medical Center Conyers, GA 3/96 – 4/98
Staff Surgeon - Westchester Medical Center Valhalla, NY 7/2000-11/07
Staff Surgeon - St. Lukes/Cornwall Hospital, Newburgh NY 9/99-1/04
Staff Surgeon - New Milford Hospital, New Milford, CT 6/01-5/06
Staff Surgeon - Putnam Hospital Center 9/99 - present

PAST POSITIONS:

Vice-Chief, Department of Surgery
Columbia Northlake Regional Medical Center
Atlanta Neurosurgical Center, P.C.
Private Practice 1988-1999

Faculty
Clinical Asst. Professor
Department of Neurosurgery
New York Medical College
Neurological and Spine Surgery Associates, P.C.
Private Practice 7/2000 – 11/05

PRESENT POSITION:

President
New York Neurosurgical PLLC
Fishkill, NY

MEDICAL LICENSURE:

New York
New Jersey

BOARD CERTIFICATION:

NBME ID#31854219

CLINICAL AND RESEARCH POSTGRADUATE TRAINING:

1980-1981	Surgical Intern University of Iowa Hospitals and Clinics Iowa City, Iowa
1981-1984	Neurosurgery Resident University of Iowa Hospitals and Clinics Iowa City, Iowa
1984-1986	Senior Staff Fellow Surgical Neurology Branch National Institutes of Neurological Communicative Disorders and Stroke National Institutes of Health Bethesda, Maryland
1986-1987	Chief Resident Division of Neurosurgery University of Iowa Hospitals and Clinics Iowa City, Iowa

TEACHING EXPERIENCE:

1977-1978	Guest Lecturer – Oncology Teaching Program Roswell Park Memorial Institute Buffalo, New York
1984-1986	Research Supervisor of students participating in the National Institutes of Health Student Research Program (William R. Holcomb and Catherine W. Parham)
1987-1988	Assistant Professor Neurosurgery, Albert Einstein College of Medicine

CLINICAL AND RESEARCH AREAS OF INTEREST:

Neurosurgical Oncology, Immunology of Neoplasia and Cancer Biology

PRESENTATIONS:

YEAR	TITLE	
1985	Killing of human glioblastoma by Interkeukin-2 activated autologous Lymphocytes	American Association of Neurological Surgeons Atlanta, Georgia
1985	Lymphokine activated killer (LAK) cell lysis of human glioblastoma <u>in vitro</u>	American Association of Cancer Research Houston, Texas
1985	Studies on the immunotherapy of glioma	Surgical Neurology Seminar Series Bethesda, Maryland
1985	The therapeutic potential of LAK cells and the role of IL-2	International Symposium on the host Defense
Mechanisms		Against Center Hakone, Japan
1986	Immunotherapy of Gliomas Using LAK Cells and IL-2	Visiting Lecturer-Cancer Lectureship Series, St. Luke's Hospital Milwaukee, Wisconsin
1987	Critical evaluation of LAK cell therapy for brain tumors	Seventh International Brain Tumor Research and Hakone, Japan
1987	Intracerebral administration of IL-2 and LAK	First Annual Symposium- The Role of Biological Modifiers: Prospects for the Future in Cancer Therapy New York Medical College
1987	Immunotherapy of Brain Tumors	Invited Speaker, Neuro- Workshop, Columbia University New York

1987 Techniques	Treatment of Malignant Brain Tumors	Neurosurgery-Controversies, Complications and Surgical New York
1987	Molecular Basis of Biology, Diagnosis and Therapy for Brain Tumors	Invited Speaker, 46 th Annual Meeting of the Japan Neurosurgical Neurosurgical Society, Tokyo, Japan

PUBLICATIONS

1. Jacobs, S. K. and Preisler, H.D.: Studies on the transfer of Immunity to RFM/Un myeloid by xenogeneic "Immune" RNA. Blood. 50 (Suppl.1): 221, 1977.
2. Jacobs, S.K. and Preisler, H.D.: Migration inhibition of sensitized mouse spleen cells by cell-associated transplantation antigens: Effect of method of antigen presentation.
3. Preisler, H.D. and Jacobs, S.K.: Sensitization in vitro to murine myeloblastic leukemic cells by xenogeneic immune RNA. J. Natl. Cancer Inst. 62: 133-137, 1979..
4. Hitchon, P.W., Hague, A., Olson, J.J., Jacobs, S.K. and Olson, S.P.: Sarcoidosis presenting as an intramedullary spinal cord mass. J. Neurosurg. 15:86-90, 1984.
5. Jacobs, S.K., Wilson, D.J., Kornblith, P.L. and Grimm, E.A.: Studies on the immunotherapy of human gliomas using autologous lymphokine activated killer cells. Surgical Forum 36: 504-506, 1985.
6. Jacobs, S.K. and Grimm, E.A.: Lymphokine activated killer cell (LAK) lysis of human glioblastoma in vitro. Proc. Amer. Assoc of Cancer Res. 26: 302, 1985.
7. Jacobs, S.K., Wilson, D.J., Kornblith, P.L. and Grimm, E.A.: In vitro killing of human glioblastoma by Interleukin-2 activated autologous lymphocytes. J. Neurosurg 64: 114-117, 1986.
8. Jacobs, S.K., Wilson, D.J., Kornblith, P.L. and Grimm, E.A.: Interleukin-2 or autologous lymphokine activated killer cell treatment of malignant glioma: Phase I trial. Cancer Res. 46: 2101-2104, 1986.
9. Jacobs, S.K., Wilson, D.J., Melin, G., Parham, C.W., Holcomb, B., Kornblith, P.L. and Grimm, E.A.: Interleukin-2 and lymphokine activated killer (LAK) cells in the treatment of malignant glioma: Clinical and experimental studies. Invited manuscript. Neurological Res. 8: 81-87, 1986.
10. Jacobs, S.K., Wilson, D.J., Kornblith, P.L., and Grimm, E.A.: Interleukin-2 and autologous lymphokine activated killer (LAK) cells in the treatment of malignant

- glioma: Preliminary report. *J. Neurosurg.* 64: 743-749, 1986.
11. Jacobs, S.K., Meline, J.G., Holcomb, B., Parham, C. W., Kornblith, P.L. and Grimm, E.A.: Lymphokine activated killer (LAK) cell mediated lysis of murine glioma: Trypsinchymotrypsin sensitive glioma protein is responsible for tumor selective recognition by LAK cells. *Brain Res.* 372: 386-389, 1986.
 12. Jacobs, S.K., Parham, C.W., Holcomb, B., Kornblith, P.L. and Grimm, E.A.: Lymphokine activated killer (LAK) cell mediated killing of human glioma: Effect of pretreating glioma with various membrane modifying agents. *J. Neuro-Oncol.* 5: 5-10, 1987.
 13. Grimm, E.A., Jacobs, S.K., Lanza, L.A., Melin, G., Parham, D.W., Roth, J.A. and Wilson, D.J.: The role of Interleukin-2 activated cytotoxic lymphocytes in cancer therapy. *Immunol. and Cancer.* Symposium on Fundamental Cancer Research, University of Texas Press. ed. P. Frost, M. Kripke. Pages 209-219, 1986.
 14. Jacobs, S.K., Wilson, D.J., Melin, G., Holcomb, B., Kornblith, P.L. and Grimm, E.A.: Clinical and experimental studies on IL-2 and IL-2 activated killer cells in the treatment of malignant glioma. *Host Defense Mechanisms Against Cancer.* ed. Urushizaki, I., Excerpta Medica, International Congress Series No. 738, Pages 36-46, 1986.
 15. Jacobs, S.K., Kornblith, P.L., Kantrowitz, A.B., Greenwald, E.S., and Wiernik, P.H.: Treatment of CNS tumors by intratumoral injection of LAK cells and Interleukin-2. Correspondence. *New Engl J. Med.* 317: 962, 1987.
 16. Jacobs, S.K.: Malignant glioma. *Mediguide to Oncology.* ed. Peter H. Wiernik. Lawrence Della Corte Publications, Inc. 7: 1-12, 1987.
 17. Jacobs, S.K., Sundstrom, D.C., Rojas, R. and Kornblith, P.L.: Immunotherapy of leptomeningeal carcinomatosis from solid tumors using autologous LAK cells and IL-2. American Association of Neurological Surgeons, 1988 Meeting.
 18. Jacobs, S.K., Kornblith, P.L. and Wiernik, P.H.: Treatment of malignant brain tumors using autologous LAK cells and IL-2. American Association of Neurological Surgeons, 1988 Meeting.
 19. Jacobs, S.K., Ratzker, P., Vender, J., Acebal, P. and Horowitz, S.: Growth inhibition of human glioblastoma by Taxol. American Association of Neurological Surgeons. 1988 Meeting.

CLINICAL PROTOCOLS:

Immunotherapy of brain tumors by interleukin-w and interleukin-2 activated autologous lymphocytes. NIH protocol 84-N-238.

UNITED STATES PATENTS:

Methods for Treating Solid Tumors Using Neutron Therapy

Patent # 6319189 B1

Granted to Steven K. Jacobs and David Halpern on November 20, 2001.