

Date: July 4, 2005

CURRICULUM VITAE

A. Personal Information:

Name in full Thomas C. Chen, M.D., Ph.D., F.A.C.S.
Business Address University of Southern California
Department of Neurosurgery
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Business Phone (323) 226-7421
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Place of Birth Kaoshiung, Taiwan
Citizenship: U.S.A.
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B. Education:

High School Glenbard South High School, Illinois, 1981
College or University University of Illinois, Urbana-Champaign, B.S., 1984
Medical School University of California, San Francisco, M.D., 1988
Internship University of Southern California, July 1988 - June 1989,
Surgery
Graduate School University of Southern California, Experimental
Pathology, Ph.D., 1996
Residencies University of Southern California, July 1989 - June 1995,
Neurosurgery
Fellowship Spine, 1996-97, Medical College of Wisconsin
Honors and Awards First Place, American Association of Neurological
Surgeons, 1991, and poster session
Alpha Omega Alpha, University of California, 1987
Alpha Omega Alpha Student Research Fellowship,
University of California, 1985
Summa Cum Laude, University of Illinois, 1984
Bronze Tablet, University of Illinois, Univ. honors, top
3%, 1984
Highest Distinction in Chemistry, University of Illinois, 1984
Phi Beta Kappa (Phi Beta Kappa Scholarship), University of
Illinois, 1984
Alpha Lambda Delta (Miriam A. Sheldon Fellowship),
University of Illinois, 1984
Phi Lambda Upsilon (Chemistry honorary society, president),
University of Illinois, 1983-84
Phi Eta Sigma (Founders Fund Scholarship), University of
Illinois, 1984
Phi Kappa Phi, University of Illinois, 1984

	Phi Lambda Upsilon Cup (sophomore distinction in chemistry), University of Illinois, 1984
	James Scholars, Univ. honors, treasurer, University of Illinois 1983-1984
	James Scholars, Univ. honors, scholarships, University of Illinois, 1982,1983
	Michael Reese Research Fellowship, University of Illinois, 1984
Licensure	California, 1989 to present (Certificate G066798) Wisconsin, 1996-1997 (Certificate 37606) North Dakota, 1999 to present (Certificate 37606)
Board Certification	The American Board of Neurological Surgery (Neurological Surgery), 2000

C. Professional Background:

Academic Appointments

Associate Professor with Tenure, Neurosurgery, Keck School of Medicine, University of Southern California, 2003 to present
 Director, Surgical Neuro-oncology, Norris Cancer Hospital, USC University Hospital, University of Southern California, 1977 to present
 Assistant Professor, Neurosurgery, Keck School of Medicine, University of Southern California, 1997 to 2003
 Assistant Professor, Pathology, Keck School of Medicine, University of Southern California, 1997 to 2003

Specific Teaching Responsibilities

Clinical Instructor, Department of Neurosurgery, Univ. of Southern California, 1995 to 1996
 Clinical Instructor, Department of Neurosurgery, Medical College of Wisconsin, 1996 to 1997
 Medical Student Lecturer: 2nd year Medical Students-Spine Injury
 Graduate Student Mentor: Dept. of Pathology, Univ. of Southern California, 1996 to present
 Master student (2), PhD students (4), Medical students (1)
 Medical Student Summer Research Mentor: Dept. of Neurosurgery, University of Southern California, 1996 to present (2nd year medical students-3)

Specific Administrative Responsibilities

Multidisciplinary Glioma Research Group - Dr. Thomas Chen: Dr. Colin Hill, Dr. Florence Hofman, Dr. Nori Kasahara, Dr. Frank Markland, Dr. Axel Schonthal, Dr. Caleb Finch
 Weekly Glioma Research Meeting, USC Keck School of Medicine, 1999 to present
 Bi-Weekly Spine Research Conference. USC Keck School of Medicine 2002 to Present
 Bi-weekly IRB Meetings (Internal Review Board), USC Keck School of Medicine, 1998 to present

Bi-weekly Neuro Tumor Board film review conference, Norris Comprehensive Cancer Center Hospital (USC Keck School of Medicine), 2004 to present
Monthly Tumor Board film review conference, LAC/USC Medical Center, 1997 to present
Monthly Residents Journal Club Meetings, LAC/USC Medical Center, 2001 to present
Monthly Neuro-oncology Meetings (Norris), USC Keck School of Medicine, 1997 to present
Quarterly Neurosurgery Resident Performance Review Committee 1997 present
Yearly “2nd Year” Medical Students (Lecture-Spine Surgery) USC, Keck School of Medicine 1997 to 1999
Chair, Neurosurgery Research Committee, USC Neurosurgery
Yearly Pathology Graduate Conference, USC, Keck School of Medicine 1998 to 2000
Graduate Thesis Committee Masters (Peter Pyrko) USC, Keck School of Medicine 2002.
PhD Thesis Committee (Christiana Charalambous, and Vinay Ghosh), USC Keck School of Medicine 2002

Other Employment or Activity

Chief Resident, Department of Neurosurgery, University of Southern California, 1994 to 1995
Staff, Kaiser Permanente Hospital, 1995 to 1996

Committees

Spine Journal, Associate Editorial Board, 2000 to present
North American Spine Society, Research Planning Committee, 1999 to 2001
LAC+USC Medical Center, Institutional Review Board, 1998 to present (Full-board and subcommittee)
Neurosurgery representative to California Medical Association 2000 to present
Chairman Search Committee, 2004 to Present
OB/GYN Task Force, 2004 to Present
Norris Cancer Center Committee, 2004 to Present
Clinical Practice Committee, 2004 to Present
Research Committee, Chair, 2004 to Present

D. Society Memberships

Local

California Association of Neurological Surgeons: 1999- present
USC/Norris Comprehensive Cancer Center/Developmental Therapeutics: 1996 to present
Western Neurosurgical Society: 2004 to present
Los Angeles Medical Association: 2001 to present

National

American Association of Neurological Surgeons (AANS) 2000 to present
Congress of Neurological Surgeons, Member (CNS) 2000 to present
American Medical Association (AMA) 1996 to present
American Association of Cancer Research (AACR) 1996 to present

North American Spine Society (NASS) 1996 to present
American Society of Gene Therapy (ASGT) 1997 to present
American College of Surgeons (ACS) 2002 to present (Fellow, ACS:
October 2002)
American Society of Clinical Oncology (ASCO) 1998 to present
Southwest Oncology Group (SWOG) 1997 to present
Society of Neuro-oncology (SNO) 1997 to present

E. Consultantship:

Synthes, Inc.-Instructor for AO Synthes
Pharmacia, Inc.

Journal Reviewer (ad-hoc)
Cancer Research
Human Gene Therapy
Journal of Neurosurgery
Neurosurgery
Spine Journal
Surgical Neurology

Grant Reviewer (ad-hoc)
VA Merit Awards
Wright Foundation

F. Research Activities:

Complete Bibliography

Appended

Major Areas of Research Interest

Translational Research

Glioma research group: Multi-disciplinary approach for translation research to glioma therapy.

- a) Antiangiogenesis-study of IL-8 as modulator of angiogenesis; modulation of signal transduction pathway in IL-8 function (collaboration with Dr. Florence Hofman)
- b) Novel gene delivery techniques: Study of a replication competent retrovirus for the delivery of novel suicide gene therapy for gliomas (collaboration with Dr. Nori Kasahara)
- c) Anti-invasion techniques: Use of contortrostatin, a novel disintegrin, for the inhibition of invasion in gliomas (collaboration with Dr. Frank Markland)
- d) Radiosensitization and cell cycle: Use of rolipram as a radiosensitizer in malignant gliomas (collaboration with Drs. Colin Hill, Axel Schonthal)
- e) Use of PKC modulation as a chemosensitizer in malignant gliomas
- f) Aging and Gliomas (with Dr. Caleb Finch)

Clinical Research Performed

Sponsors

1. Project Title: An Open Label Study of Temodal® in the Treatment of Patients with Relapsed or Progressive High Grade Malignant Glioma
Shering-Plough Corporation
1998, Principal Investigator
2. Project Title: A Phase II Open Label Study of SU101 for Patients With Anaplastic Astrocytoma in First Relapse
Sugen, Inc.
1998, Principal Investigator
3. Project Title: A Phase III Open Label Study of SU101 versus Procarbazine for Patients with Glioblastoma Multiforme in First Relapse
Sugen, Inc.
1998, Principal Investigator
4. Project Title: A Phase I/II Pharmacodynamic and Pharmacokinetic Study of Rally Administered Synthetic Hypericin (VIMRxyn®) For Treatment of Recurrent Malignant Brain Gliomas
VIMRX, Inc.
1997-1998, Principal Investigator
5. Project Title: A Phase I/II Study of Recombinant Chimeric Protein Composed of Circularly Permuted IL-4 and a Mutated For of the Pseudomonas Exotoxin Termed IL-4 (38-37)-PE38KDEL (IL-4 toxin) for the Treatment of Recurrent Malignant Astrocytoma
Neurocrine Bioscience
1998, Principal Investigator
6. Project Title: Efficacy of Surgery, Radiation and Gene Therapy vs. Surgery and Validation in Patients with Untreated Glioblastoma
Gene Therapy Inc
1997-1998, Sub-Investigator
7. Project Title: A Phase III, open-label, randomized comparative study of interstitial ¹³¹I chTNT-1/B MAb (COTARA) vs temozolomide for the treatment of recurrent glioblastoma multiforme (GBM).
Peregrine Pharmaceuticals, Inc. 2002, Principal Investigator
8. Project Title: Phase I/II study of the safety and tolerability of DTI-015 in patients with recurrent glioblastoma multiforme.
Direct Therapeutics, Inc.
2000-2002, Principal Investigator

Clinical Research in Progress

1. Project Title: “Non-Invasive, Cell Proliferation-Based Assessment Treatment Response in Human Malignant Gliomas With Positron Emission Tomography”
The Dana Foundation 2002-2005, Principal Investigator \$100,000
2. Project Title: A Phase III multicenter study of intratumoral/interstitial therapy with TransMID. Xenova Group.5-2004 to 5-2005, Principal Investigator \$150,000
3. Phase III Randomized Evaluation of Convection Enhanced Delivery of IL13-PE38QQR Compared to Gliadel \$150,000
NeoPharm, Inc. 6-2004 to 6-2005, Principal Investigator
4. Can the platelet plug be used safely in cancer patients? \$37,500
DePuy Acromed, Inc. 2004 – 2005, Principal Investigator

Research Grants in Past **Seven Years**

1. Rolipram: A potential antiglioma therapy. \$15,000
Norris Cancer Hospital Institutional
2. Upregulation of cAMP/PKA pathway reduces invasion of malignant gliomas: dissection of the invasion process. \$12,500
Zumberge Foundation
1998- 1999, Principal Investigator
3. Targeted inhibition of vitronectin integrins by contortrostatin and tumor necrosis factor alpha as anti-invasion and anti-angiogenesis therapy for malignant gliomas. \$50,000
Wright Foundation
1999 - 2000, Principal Investigator
4. A Phase III open label study of SU101 vs procarbazine for patients with glioblastoma multiforme. \$58,800
Sugen/Pharmacia
1999 - 2001, Principal Investigator
5. A Phase II study of SU101 for patients with anaplastic astrocytoma. \$22,700
Sugen/Pharmacia
1999 - 2001, Principal Investigator
6. A Phase I/II study of recombinant chimeric protein composed of circularly permuted IL-4 and a mutated form of the pseudomonas exotoxin termed IL-4 (38-37)-PE38KDEL (IL-4 toxin) for the treatment of recurrent malignant astrocytoma. \$10,297
Neurocrine Biosciences

- 1999 - 2000, Principal Investigator
7. Targeted gene delivery to malignant gliomas via the fibroblast growth factor receptor. \$50,000/yr x 3 years
Connell Foundation
2000 - 2002, Principal Investigator
 8. Fellowship on Brain Tumors \$3,000/year
\$2500/yr for Year I Medical Student Summer Research
Kriegel Research Foundation
Principal Investigator
 9. Distribution of small magnetic particles in brain tumors. \$12,500
FeRx
2001-2002, Principal Investigator
 10. Phase I/II study of the safety and tolerability of DTI-015 \$58,750
in patients with recurrent glioblastoma multiforme.
Direct Therapeutics
2001 - present, Principal Investigator
 11. Non-invasive, cell proliferation based assessment of \$100,000
treatment response in human malignant gliomas with
positron emission tomography.
Dana Foundation
2002-2005, Principal Investigator
 12. In-vivo imaging of replication competent retrovirus \$50,000
transduction of malignant gliomas using micro-positron
emission tomography. P20 grant awarded to Peter Conti, MD, PhD
Development of a cellular and molecular based cancer
imaging center. 2003 - 2004, Principal Investigator
 13. Aging and the Brain Microenvironment in Human Gliomas. \$50,000
Wright Foundation, USC
7-2003 to 7-2004, Principal Investigator
 14. Role of PKC-Mediated GRP Induction in Glioma Chemoresistance. \$200,000
National Cancer Institute, co-PI
7-2003 to 7-2006, co-PI
 15. Generating Brain Tumor Targeted Derivatives of the Anti-Tumor \$50,000
Drug Celecoxib
James H. Zumberge Research and Innovation Fund, PI
7-1-2004 to 7-31-2005, co-Principal Investigator
 16. New Target for Anti-angiogenic Therapy in Brain Tumors \$49,874
Zumberge Research Grant
7-1-2005 to 6-31-2007, co- Principal Investigator

17. Cervical Spondylosis: a randomized trial of anterior decompression and stabilization vs posterior decompression and stabilization \$50,000
7-1-05 to 7-1-07, principal investigator
Synthes/AO-ASIF
18. Survivin: Target for Breast Cancer Metastasis Therapy \$250,000
California Breast Cancer Research Program, co-PI

Grants Pending

1. PTEN regulation of estrogen receptors in gliomas, \$350,000
R21, PI

BIBLIOGRAPHY

Thomas C. Chen, M.D., Ph.D., F.A.C.S.

PEER REVIEW

1. Gesundheit N, Magner JA, Chen TC, Weintraub BD.
Differential sulfation and sialylation of secreted mouse thyrotropin (TSH) subunits: regulation by TSH-releasing hormone. *Endocrinology* 119: 455-463, 1986.
2. McKown RL, Orle K, Chen TC, Craig NL.
Sequence requirements of *Escherichia coli* att Tn7, a specific site of transposon Tn7 insertion. *J of Bacteriology* 170: 352-258, 1988.
3. Chen TC, Char DH, Waldman F, and Juster RP.
Flow cytometry measurement of nuclear RNA content in uveal melanoma. *Ophthalmic Res.* 22:187-193, 1990.
4. Tung H, Chen TC, Weiss MH.
Sixth nerve schwannomas. Report of two cases. *J Neurosurg* 75: 638-641, 1991.
5. Levy ML, Chen TC, Weiss MH.
Monostotic fibrous dysplasia of the clivus. *J Neurosurg* 75: 800-804, 1991.
6. Chen TC, Maceri D, Giannotta SL, McComb JG.
Unilateral acoustic neuromas in childhood without evidence of neurofibromatosis: case report and review of the literature. *Amer J Otol* 13: 318-322, 1992.
7. Zee CS, Chen TC, Segall HD, Destian S, and Ahmadi J. Magnetic Resonance Imaging of Meningiomas. *Seminars in Ultrasound CT and MRI.* 13: 154-169, 1992.
8. Chen TC, Zee CS, Miller CA, Weiss MH, Tang G, Chin L, Levy ML, Apuzzo MLJ. Magnetic Resonance Imaging and Pathologic Correlates of Meningiomas. *Neurosurgery* 31: 1015-22, 1992.
9. Chen TC, Hinton DR, Apuzzo ML, Hofman FM.
Differential effects of tumor necrosis factor-alpha on proliferation cell surface antigen expression, and cytokine interactions in malignant gliomas. *Neurosurgery* 32: 85-94, 1993.
10. Zlokovic BV, McComb JG, Lipovac MN, Chen TC, Mackic JB, Schneider J, Giannotta SL, Weiss MH.
Differential brain penetration of cerebroprotective drugs. *Advances in Exp Med & Biol* 331: 117-120, 1993.
11. Chen TC, Maceri D, Levy M, Giannotta SL.
Fat Graft Prolapse after Translabrynthine Craniotomy. *Neurosurgery* 35: 521-525, 1994.

12. Couldwell WT, Chen TC, Weiss MH, Fukushima T, Dougherty W.
Cranioplasty with the Medpor Porous Polyethylene Flexblock Implant. Technical Note.
J Neurosurg 81: 483-87, 1994.
13. Chen TC, Hinton DR, Leichman L, Atkinson RD, Couldwell WT.
Multifocal inflammatory leukoencephalopathy associated with levamisole and 5-fluorouracil.
Neurosurgery 35: 1138-44, 1994.
14. Couldwell WT, Hinton DR, He S, Chen TC, Sebat I, Weiss MH, Law RE.
Protein kinase C inhibitors induce apoptosis in human malignant glioma cell lines. FEBS
Letters 345: 43-6, 1994.
15. Chen TC, Rabb C, Apuzzo MLJ.
Complex technical methodologies and their applications in the surgery of intracranial
meningiomas. In Ransohoff J ed. Meningiomas. Neurosurgery Clinics of North America 5:
261-283, 1994.
16. Stillerman CB, Chen TC, Day JD, Weiss MH.
The transfacet approach for herniated thoracic discs. J Neurosurgery 83: 971-6, 1995.
17. Zee CS, Chen TC, Hinton DR, Tan M, Segall HD, Apuzzo MLJ.
Magnetic resonance imaging of cystic meningiomas and its surgical implications.
Neurosurgery 36: 482-489, 1995.
18. LeMay D, Chen TC, Petrovich Z, Luxton G, Zelman V, Zee CS, Green J, Apuzzo MLJ.
Gamma unit facility: concept genesis, architectural design and practical realization. Stereotact
Funct Neurosurg. 66: 41-9, 1996.
19. Chen TC, Mackic J, McComb JG, Weiss MH, Giannotta SL, Zlokovic BV.
Methylprednisolone uptake at the blood-brain interface. Neurosurgery 38: 348-354, 1996
20. Ko D, Heck C, Grafton S, Apuzzo MLJ, Couldwell WT, Chen TC, Day JD, Zelman V,
Smith T and DeGiorgio CM.
Vagus nerve stimulation activates central nervous system structures in epileptic patients during
PET H₂O blood flow imaging. Neurosurgery 39: 426-431, 1996.
21. Chen TC, Gonzalez-Gomez I, McComb JG.
Pediatric intracranial hemangi endotheliomas. Neurosurgery 40: 410-415, 1997.
22. Chen TC, Wright AD, Sippy BD, Law R, Hofman FM.
Soluble TNF- α receptors are constitutively shed and down regulate adhesion molecule
expression in malignant gliomas. J Neuropathol Exp Neurol 56: 541-550, 1997.
23. Chen TC, Hinton DR, Yong VW, Hofman FM.
TGF- β 2 and soluble p55 TNFR modulate VCAM-1 expression in glioma cells and brain
derived endothelial cells. J Neuroimmunol. 73: 155-161, 1997.

24. Chen TC, Hinton DR, Hofman FM.
Upregulation of cAMP/PKA pathway inhibits proliferation, induces differentiation, and leads to apoptosis in malignant gliomas. *Laboratory Investigation*. 78:165-174, 1998.
25. Stillerman CB, Chen TC, Couldwell WT, Zhang W, Weiss MH.
Experience in the surgical management of 82 symptomatic herniated discs and review of the literature. *J Neurosurgery*. 88:623-633, 1998.
26. Chen TC.
Recombinant Human morphogenetic protein: It's future role in spine fusions. *Neurosurg. Focus* Vol. 4:(2), Article 11, 1998. (Online)
27. Chen TC.
Hereditary neurological tumor syndromes-clues to glioma oncogenesis? *Neurosurg Focus*. Vol. 4:(4), Article 1, 1998 (Online)
28. Chen TC, Maiman DJ.
Anterior Lumbar Fusions. *Techniques in Neurosurgery* 4:256-264, 1998.
29. Chen TC, Helm GA.
Introduction to Gene Therapy. *Neurosurg Focus*, Vol. 8(4): Introduction, 2000. (Online)
30. Zhu NL, Sosnowski BA, Zlokovic BV, Ong M, Chen TC.
Targeted cytotoxic gene delivery to malignant gliomas via the fibroblast growth factor receptor. *Neurosurg Focus*. Vol. 8(4), 1-8, 2000.
31. Schmitmel S, Markland FS, Chen TC.
Anti-invasive Effect of Contortrostatin, a snake venom disintegrin, and TNF- α on malignant glioma cells. *Anti-Cancer Res*. 20(6b): 4227-4233, 2000.
32. Homans S, Khoo L, Chen T, Commins DL, Ahmed J, Kovacs A.
Spinal intramedullary cysticercosis in a five-year-old child: case report and review of the literature. *The Pediatric Infect. Disease Journal*. 20(9):904-908, 2000.
33. Ghosh S, Weiss M, Streeter O, Sinha U, Commins D, Chen TC.
Drop Metastasis from Sinonasal Undifferentiated Carcinoma. *Spine*. 26(13):1486-1497, 2001.
34. Chen TC.
Prostate Cancer and Spinal Cord Compression. *Oncology*. 15(7): 841-55. 2001
35. Simard M, Zhang W, Hinton DR, Chen TC, Weiss MH, Su Y, Gopalakrishna R, Law RE, Couldwell WT. Tamoxifen-induced growth arrest and apoptosis in pituitary tumor cells in vitro via a protein kinase C-independent pathway. *Cancer Letters*. 185(2):131-138, 2002.
36. Chen TC, Wadsten P, Su S, Rawlinson R, Hofman FM, Hill CK, Schonthal AH.
The type IV phosphodiesterase inhibitor rolipram induces expression of the cell cycle inhibitors p21 Cip 1 and p27Kip1, resulting in growth inhibition, increased differentiation, and subsequent apoptosis of malignant A-12 glioma cells. *Cancer Biology & Therapy*, Vol. 1:3, 268-276, 2003.

37. Wang WJ, Tai CK, Kasahara N, Chen TC. Highly efficient and tumor-restricted gene transfer to malignant gliomas by replication-competent retroviral vectors. *Human Gene Therapy*. 14:117-127, 2003.
38. Chen TC, Su S, Fry D, Liebes L. Combination therapy of irinotecan and protein kinase C inhibitors in malignant gliomas. *Cancer Supplement 97/9*: 2363-2373, 2003.
39. Schmitmeier S, Markland FS, Ritter MR, Chen TC. Functional effect of contortrostatin, a snake venom disintegrin, on human glioma cell invasion in vitro. *Cell Communication and Adhesion*, 10 (1), 2003.
40. Kardosh A., Blumenthal M., Wang W., Chen TC., Schonthal AH. Differential effects of selective COX-2 Inhibitors on cell cycle regulation and proliferation of glioblastoma cell lines. *Cancer Biology & Therapy* 1:55-62, 2004.
41. Charalambous C, Hofman FM, Chen TC. Functional and phenotypic differences between glioblastoma-derived and normal human brain endothelial cells. *J Neurosurg* 102(4):699-705, 2005.
42. Schmitmeier S, Markland FS, Schonthal AH, Chen TC. Potent mimicry of fibronectin-induced signaling in glioma cells by the homodimeric snake venom disintegrin contortrostatin. *Neurosurgery* 57(1): 141-53, 2005.

ARTICLES ACCEPTED, PENDING PUBLICATION

1. Wang W, Zhu NL, Chua J, Schmitmeier S, Sonowski BA, Shichinoheno T, Chen TC. Retargeting of adenoviral vector using FGF2 ligand for malignant glioma gene therapy. accepted, publication *J Neurosurgery*, 12-2005.
2. Pyrko P, Wang W, Markland FS, Swenson SD, Schmitmeier S, Schonthal AH, Chen TC. Inhibition of tumor progression, and extension of survival, in a rodent glioma model by contortrostatin, a snake venom disintegrin. Accepted, *J Neurosurgery*
3. Tai CK, Wang WJ, Anderson WF, Chen TC, Kasahara N. Replication competent retrovirus vectors for oncolytic virotherapy: highly efficient suicide gene transfer and stable results in long term survival benefit in vivo. Accepted *Molecular Therapy*, 4-2005.
4. Khardosh A, Wang W, Chen TC, Schonthal A. Dimethyl-celecoxib (DMC), a derivative of celecoxib that lacks cyclooxygenase-2-inhibitory function, potently mimics the anti-tumor effects of celecoxib on Burkitt's lymphoma in vitro and in vivo, accepted *Cancer Biology & Therapy*, 4-2005
5. Khardosh A, Wang W, Chen TC, Schonthal A. Multi-target inhibition of drug-resistant multiple myeloma cell lines by dimethyl-celecoxib (DMC), a non-COX-2 inhibitory analog of celecoxib. Accepted, *Blood*, 7-2005.

ARTICLES SUBMITTED

1. Chambouros C, Hofman FM, Su S, Chen TC. Interleukin-8 (IL-8) regulates tumor associated human brain endothelial cell angiogenesis. Submitted Cancer Research 4-2005.
2. Tai CK, Wang WJ, Logg CR, Parker WB, Hong JS, Li YF, Sorscher EJ, Chen TC, Kasahara N. Enhanced efficiency of prodrug activation therapy by tumor-selectively replicating retrovirus armed with the Escherichia coli purine nucleoside phosphorylase gene. Submitted Molecular Therapy, 3-2005.
3. Hill CK, Kim S, Schonthal A, Felton K, Wang W, Chen TC. Rolipram and/or cAMP analogues increase radiosensitization in glioma cell lines. Submitted International J of Radiation Oncology. 4-2005.
4. Gupta V, Wang W, Sosnowski BA, Hofman FM, Chen TC. FGF2-retargeted adenoviral vectors for selective transduction of glioblastoma endothelial cells. Submitted Cancer Gene Therapy. 4-2005.

ARTICLES IN PREPARATION

1. Chen TC, He S. The topoisomerase inhibitor CPT-11 is cytotoxic to meningioma cells.
2. Su YS, Gopalkrishna R, Gundimeda U, Chen TC. Suppression of protein kinase C activation sensitizes growth inhibition induced by temozolomide in malignant gliomas.
3. Chen TC. Current management of spine metastasis.
4. Kuo JS, Chen TC. Convection enhanced delivery of CNS Therapy.
5. Chen TC, Wang W, Liebel L. Use of intratumoral CPT-11 in the treatment of malignant gliomas.
6. Gupta V, Weiss MH, Schonthal AH, Hofman FM, Chen TC. Gleevec (imatinib mesylate, STI-571): a potential new oral chemotherapeutic agent for the treatment of pituitary adenomas.
7. Milan J, Charalambous C, Chen TC, Li W, Guan S, Hofman FM, Zidovetzki R. Multiple parallel signaling pathways involved in endothelin-1-induced brain endothelial cell migration.

ABSTRACTS

1. Chen TC.
Purification and spectral characterization of the heme undecapeptide derived from cytochrome. University of Illinois, 1984.

2. Chen TC, Papagiannes E, Magner JA.
Sialic acid is present in mouse pituitary thyrotropin alpha and beta subunits. AFCR, presentation 2-6-87.
3. Chen TC, Weinberg R, Apuzzo MLJ.
Progressive Neurosurgical Operating Room Design: Advanced Visualization as a Technical Adjunct in Stereotactic and Micro-operative Procedures.
Oral presentation AANS, 1991.
4. Chen TC, Schneider J, Mackic J, Giannotta SL, Zlokovic, BL.
Kinetic Analysis of Methylprednisolone Uptake at the Luminal Side of the Blood-Brain Barrier of an In Situ Perfused Guinea Pig Brain.
Poster AANS, 1991.
5. Chen TC, Zee C, Tang G, Levy M, Chin L, Apuzzo MLJ.
Surgical Characterization of Meningiomas on Magnetic Resonance Imaging. Poster-AANS, 1991-first place.
6. Chen TC, Hinton DR, Apuzzo MLJ, Hofman FM.
Differential effects of tumor necrosis factor-alpha on proliferation, cell surface antigen expression, and cytokine interactions in malignant gliomas. Abstract, Congress of Neurological Surgeons, 1991.
7. Chen TC, Mackic JB, McComb JG, Giannotta SL, Zlokovic BV.
Methylprednisolone sequestration at the blood-brain barrier and transport into the brain. AANS meeting, 1992.
8. Chen TC, McComb JG.
The clam opening technique for correction of sagittal synostosis. AANS, 1993.
9. Chen TC, Gonzalez-Gomez I, McComb JG.
Pediatric intracranial hemangiomas poster. Pediatric Section, 1992; AANS, 1993.
10. McComb JG, Lipovac MN, Chen TC, Mackic JB, Zlokovic BV.
Brain penetration of a calcium channel blocker, nimodipine. AANS, 1993.
11. Chen TC, Mackic JB, McComb JG, Zlokovic BV. Methylprednisolone uptake at the blood-brain interface. Oral Presentation, Pediatric Section, 1992; AANS, 1993.
12. Chen TC, McComb JG, Maceri D, Giannotta G.
Acoustic Neuromas in Childhood. Neuro-otology meeting, Hawaii, 1991.
13. Chen TC, Zee C, Miller C, Tang G, Levy M, Chin L, Apuzzo MLJ.
Surgical characterization of meningiomas on magnetic resonance imaging. Presentation ACS Southern California Section, 1991.
14. Chen TC, Hinton DR, Apuzzo MLJ, Hofman FM.

Differential effects of tumor necrosis factor-alpha on proliferation, cell surface antigen expression, and cytokine interactions in malignant gliomas. Presentation ACS, Southern California Chapter. Indian Wells, CA 1992.

15. Chen TC, Maceri D, Levy M, Giannotta G.
Fat Graft. Prolapse after Translabyrinthine Craniotomy. Presented at ACS Southern California Chapter-Otolaryngology, 1992.
16. Chen TC, Hinton DR, Leichman L, Atkinson R, Couldwell WT.
Multifocal inflammatory leukoencephalopathy associated with levamisole and 5-fluorouracil. AANS, 1994.
17. Chen TC, Dougherty W, Couldwell WT.
Cranioplasty with the Medpor porous polyethylene flexblock implant. AANS, 1994.
18. Chen TC, Hinton DR, Zee CS, Couldwell WT, Weiss MH.
Pituitary fibrosis in patients with negative explorations for pituitary adenomas. AANS, 1994.
19. Stillerman CB, Chen TC, Day JD, Gruen JP. Posterior transfect pedicle sparing approach for thoracic discs. AANS, 1994.
20. Stillerman CB, Chen TC, Gruen JP, Levy ML, Schneider JS.
Anterior cervical fixation using the "Manny" fixator: clinical experience and follow-up on 26 patients. AANS, 1994.
21. Chen TC, Hinton DR, Zee CS, Couldwell WT, Giannotta SL.
Malignant cerebellopontine angle tumors. Oral Presentation, North American Skull Base Meeting, 1994.
22. Chen TC, Hinton DR, Wright AD, Sippy BD, Law R, Hofman F.
Differential expression of two distinct TNF-alpha receptors in malignant gliomas. 5th International TNF Conference, Monterey, CA, 1994.
23. LeMay DR, Chen TC, Petrovich Z, Luxton G, Zelman V, Zee CS, Green J, Apuzzo MLJ.
Gamma unit facility concept genesis, architectural design and practical realization. Oral presentation, American Society for Stereotactic and Functional Neurosurgery, Marina del Rey, CA, 1995.
24. Stillerman CB, Chen TC, Masri L, Couldwell WT, Weiss MH.
Operative management of 82 herniated thoracic discs: a 23-year experience. AANS, Oral Presentation, 1996.
25. Chen TC.
Cytokine regulation of adhesion molecules in malignant gliomas. SUNS meeting, Oral Presentation, LA, CA 1996.
26. Chen TC.
Modulation of signal transduction pathways in the treatment of malignant

- gliomas. Southern California Neurosurgical Association, oral presentation. Pasadena, CA 1996.
27. Chen TC, Hinton DR, Hofman FM.
Upregulation of cAMP/PKA pathway inhibits proliferation, induces differentiation, and leads to apoptosis in malignant gliomas. Montreal, Canada 1996.
 28. Chen TC.
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MISCELLANY/INVITED TALKS

1. "Tumors of the Spine and Spinal Cord"
Joseph P. Van der Meulen Symposium in Clinical Neuroscience
Spinal Cord, Nerves and Muscles: The "Backbone" of Your Practice
Los Angeles, California - March 1999
2. "A Roundtable Discussion of the Treatment of Glioma Patients: Irinotecan"
Neuro-Oncology Annual Meeting
Sponsored by: Pharmacia & Upjohn
Scottsdale, Arizona – November 1999
3. "Anaplastic Astrocytomas"
The Power of Help, Hope and Healing
The 6th National Brain Tumor Conference
Los Angeles, California – March 2000
4. "Surgical Management of Neurocysticercosis." LA 2000
5. "Use of PKC inhibitors to potentate effect of CPT-11 in the treatment of malignant gliomas."
Pharmacia Meeting. Asheville, NC, 2001.

6. “Advances in Surgical Neuro-oncology” Joseph P. Van der Meulen Symposium in Clinical Neuroscience. Los Angeles, CA, April 2002.
7. “Advances in Translational Neuro-oncology.” Neurology Translational Grand Rounds, USC. Los Angeles, CA, October, 2004.
8. “My Aching Back.” North American Taiwanese Medical Association. Industry City, CA, 10-2004.

Student Lectures

1. “Case-Based Seminar – Spinal Cord Injury”
Second year medical students - Neurobehavior
University of Southern California, Los Angeles, CA, December 1999.
2. “Gene Therapy of Malignant Gliomas”.
St. George Society
University of Southern California, Los Angeles, CA January 22, 2003

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