



JOHNS HOPKINS
M E D I C I N E

CURRICULUM VITAE
MICHEL LIM M.D.
July, 2009

Assistant Professor of Neurosurgery and Oncology
Johns Hopkins Hospital
Department of Neurosurgery
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Baltimore, MD 21287
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EDUCATION

1991-95 University of New Hampshire
Bachelor of Science, Biochemistry
Valedictorian
Durham, New Hampshire

1995-2000 Johns Hopkins University School of Medicine
Doctor of Medicine
Baltimore, Maryland

2000-2001 Stanford University Medical Center
General Surgery Internship
Stanford, California

2001-2007 Stanford University Medical Center
Neurosurgical Residency
Stanford, California

RESEARCH AWARDS AND GRANT SUPPORT

1993 Summer Undergraduate Research Fellowship
University of New Hampshire

1996 Johns Hopkins Dean's Grant
Johns Hopkins University School of Medicine

1999 Howard Hughes Medical Student Research Fellowship
Johns Hopkins University School of Medicine

2004-05 Bank of America - Giannini Family Foundation Grant
Stanford University School of Medicine

2005-06 NIH-NINDS (1 F32 NS 049794-01)
National Research Service Award (NRSA)
Score: 121
Percentile: 0.8
Stanford University School of Medicine

2009-10 Neurosurgery Research and Education Foundation

2009-11 Association of Academic Surgeons Grant

AWARDS AND HONORS

1991 Harry Evans Honors Program Scholarship
University of New Hampshire

1992 Phi Beta Kappa Honor Society
University of New Hampshire

1993 Alpha Zeta Honors Fraternity for Biological Sciences
University of New Hampshire

1993 Mortar Board Honor Society
University of New Hampshire

1994 Premedical Committee Scholarship
University of New Hampshire

1991-95 Presidential Scholar
University of New Hampshire

1991-95 Governor's Success Grant Scholar – 4 year Scholarship
University of New Hampshire

1991-95 Granite State Scholar - A full tuition 4 year merit scholarship given to 12 students entering the
University of New Hampshire

1995 John McConnell Scholarship
University of New Hampshire

1995 Valedictorian
University of New Hampshire

1996 Dean's Grant Award for Research
Johns Hopkins University School of Medicine

1998-99 Howard Hughes Medical Student Fellowship
Johns Hopkins University School of Medicine

2008 Richard Otenasek Jr. Faculty Teaching Award

RESEARCH EXPERIENCE

1991-95 Independent Research with Charles Walker, Ph.D.
University of New Hampshire
Durham, New Hampshire
Focus: Receptor Tyrosine Kinase Pathways in Spermatogenesis.

1995 Summer Internship with Ruth Ruprecht, M.D., Ph.D.
Dana Farber Cancer Center
Boston, Massachusetts
Focus: DNA Vaccines Against Retroviruses.

1996 Summer Internship with Rita Alevriadou, Ph.D.
Johns Hopkins University School of Medicine

Baltimore, Maryland
Focus: Effects of Shear Stress and Estrogen on Endothelial Cells.

1998–99 Howard Hughes Funded Research with Jonathan Simons, M.D.
Johns Hopkins University School of Medicine
Baltimore, Maryland
Focus: Immunotherapy Against Prostate Cancer.

2003–05 Research Fellowships in Neurosurgery with Samira Guccione, Ph.D.
and Griffith Harsh, M.D.
Stanford University School of Medicine
Stanford, California
Focus: 1. Angiogenesis in CNS Tumors
2. Targeted Therapies Against GBM

CLINICAL TRIALS

2008- Site PI for CDX 110 GBM Vaccine: Phase II/III Omnicare – IRB approval obtained

PUBLICATIONS

Journals

1. Khimani AH, **Lim M**, Graf TG, Smith TF, and Ruprecht RM. Rauscher Murine Leukemia Virus, complete sequence. *Genbank*. June 1997.
2. Khimani AH, **Lim M**, Graf TG, Smith TF, and Ruprecht RM. Complete Genome of Rauscher Murine Leukemia Virus and its Phylogenetic Relationship with Other Murine Leukemia Viruses. *Virology* 1997 (238): 64-67.
3. **Lim M** and Simons JW. Emerging concepts in GM-CSF gene transduced tumor vaccines for human prostate cancer. *Current Opinion in Molecular Therapeutics* 1999 (1):64-71.
4. Simons JW, Mikhak B, Chang JF, DeMarzo AD, Carducci MA, **Lim M**, Weber CE, Baccala AA, Goemann MA, Clift SM, Ando DG, Levitsky HI, Cohen LK, Sanda MG, Mulligan RC, Partin AW, Carter HB, Piantadosi S, Marshall FF, and Nelson WG. Induction of Immunity to Prostate Cancer Antigens: Results of a Clinical Trial of Vaccination with Irradiated Autologous Prostate Tumor Cells Engineered to Secrete GM-CSF using *Ex Vivo* Gene Transfer. *Cancer Res*. 1999 Oct 15;59(20):5160-8.
5. Zhong H, DeMarzo AM, Laughner E, **Lim M**, Hilton DA, Zagzag D, Puechler P, Isaacs WB, Semenza GL, and Simons JW. Overexpression of Hypoxia-Inducible Factor 1 Alpha in Common Human Cancers and Their Metastases. *Cancer Res*. 1999 Nov 15;59(22):5830-5.
6. Moriarti J, **Lim M**, Beauchamp, NJ Jr., Olivi, A. Reversible Posterior Leukoencephalopathy Occurring During Resection of a Posterior Fossa Tumor: Case Report and Review of the Literature. *Neurosurgery*. 2001 Nov;49(5):1237-9.
7. **Lim M**, Gibbs I, Adler JR, Martin D, Chang S. The Efficacy of Stereotactic Radiosurgery In Treating Glomus Jugulare Tumors. *Technol Cancer Res Treat*. 2003 Jun;2(3):261-266.
8. **Lim M**, Gibbs I, Adler JR, Chang S. The Efficacy and Safety of Stereotactic Radiosurgery for Glomus Jugulare Tumors. *Neurosurgical Focus*. 2004 Aug;17(2): 68-72.
9. Sims L, **Lim M**, Harsh GH. Management of Brain Abscesses. *Operative Techniques in Neurosurgery* 2004 Dec;7(4):176-181.
10. Ryu S, **Lim M**, Harsh GH. Management of Epidural Abscesses and Subdural Empyemas. *Operative Techniques in Neurosurgery* 2004 Dec;7(4):182-187.

11. **Lim M**, Haddix T, Harsh GR, Vogel H, Steinberg G, Guccione S. Characterization of the Integrin $\alpha\beta 3$ in Arteriovenous Malformations and Cavernous Malformations. *Cerebrovasc Dis*. 2005 May 30;20(1):23-27.
12. **Lim M**, Villavicencio A, Burneikiene S, Chang SD, Romanelli P, McNeely L, McIntyre M, Thramann JJ, Adler JR. Cyberknife Radiosurgery for Idiopathic Trigeminal Neuralgia. *Neurosurgical Focus*. 2005 May;18(5):E9.
13. **Lim M**, Guccione S, Haddix T, Sims L, Cheshier SH, Chu P, Vogel H, Harsh GH. $\alpha\beta 3$ Integrin in Central Nervous System Tumors. *Hum Pathol*. 2005 Jun;36(6):665-9.
14. Sinclair J, Marks MP, Levy RP, Adler JR, Chang SD, Lopez JR, Do HM, Bell-Stephens TE, **Lim M**, Steinberg GK. Visual Field Preservation Following Curative Multi-modality Treatment of Occipital Lobe Arteriovenous Malformations. *Neurosurgery* 2005 Oct 57(4): 655-67.
15. **Lim M**, Cotruz C, Romanelli P, Schaal D, Gibbs I, Chang SD, Adler JR. Stereotactic Radiosurgery Using CT Cisternography and Non-Isocentric Planning for the Treatment of Trigeminal Neuralgia. *Computer Aided Surgery* 2006 January 11(1):11-20.
16. **Lim M** and Adler JR. Cyberknife Radiosurgery for Extremity Schwannomas: Technical Report and Case Report. *Stereotactic and Functional Neurosurgery*. 2006;84:60-63. Cover Article.
17. Simons JW, Carducci MA, Mikhak B, **Lim M**, Biedrzycki B, Borrellini F, Clift SM, Hege KM, Ando DG, Piantadosi S, Mulligan R, Nelson WG. Phase I/II Trial of an Allogeneic Cellular Immunotherapy in Hormone-Naïve Prostate Cancer. *Clin Cancer Res*. 2006 Jun 1;12(11 Pt 1):3394-401.
18. **Lim M***, Cheshier SH*, and Steinberg GK. Angiogenesis in the CNS. *Neurovascular Research*. 2006 Aug (3):237-245.
19. Lad SP, Guzman R, Kelly ME, Li G, **Lim M**, Lovbald K, Steinberg GK. Cerebral Perfusion Imaging in Vasospasm: an Overview. *Neurosurgical Focus*. 2006. Sep 21 (3):E7.
20. **Lim M***, Bower R*, Adler JR, Chang SD. A Single Institution Experience of Treating Trigeminal Neuralgia with the CyberKnife. *New Magazine Edizioni*. In press.
21. Bower R, **Lim M**, Harsh GR. Current State of Immunotherapy for Gliomas – Part I. *Contemporary Neurosurgery*. 2007 Jul(1):1-6.
22. Bower R, **Lim M**, Harsh GR. Current State of Immunotherapy for Gliomas – Part II. *Contemporary Neurosurgery*. 2007 Jul(2):1-8.
23. **Lim M**, Bower R, Nangiana JS, Chang SD. Radiosurgery for Glomus Jugulare Tumors. *Technol Cancer Res Treat*. 2007 Oct;6(5):419-23.
24. Patil CG, Veeravagu A, Bower R, Li G, Chang SD, **Lim M**, Adler JR. Cyberknife Radiosurgery for the Treatment of Atypical Trigeminal Pain. *Neurosurgical Focus*. 2007;23(6):E9.
25. Li G, Chang SD, Adler JR, **Lim M**. Irradiation of Glomus Jugulare Tumors: a Historical Perspective. *Neurosurgical Focus*. 2007;23(6):E13.

26. Nangiana JS, **Lim M**, Silva R, Guzman R, Chang SD. Vein of Galen Malformations Part I. *Contemporary Neurosurgery*. 2008;30(4):1-8.
27. Nangiana JS, **Lim M**, Silva R, Guzman R, Chang SD. Vein of Galen Malformations Part II. *Contemporary Neurosurgery*. 2008;30(5):1-8.
28. Villavicencio A*, **Lim M***, Burneikiene S, Romanelli P, Chang SD, McNeely L, Fariselli L, McIntyre M, Bower R, Broggi G, Thramann JJ, Adler JR. CyberKnife Radiosurgery for Trigeminal Neuralgia: A Multicenter Experience. *Neurosurgery*. 2008. Mar(62)3:647-55.
29. Sangoi A*, **Lim M***, Vogel H, Chang SD. Giant Cell Ependymoma Presenting in the Suprasellar Cistern: Case Report. *Human Pathology*. 2008. Sept 39(9):1396-401.
30. Ford E, Purger D, Tryggestad E, McNutt T, Christodouleas J, Rigamonti D, Shokek O, Won S, Zhou J, **Lim M**, Wong J, Kleinberg L. A Virtual Frame System for Stereotactic Radiosurgery Planning. *Int J Radiat Oncol Biol Phys*. 2008. Nov 15;72(4):1244-9.
31. Adler JR, Bower R, Gupta G, **Lim M**, Efron A, Gibbs IC, Chang SD, Soltys SG. Nonisocentric radiosurgical rhizotomy for trigeminal neuralgia. *Neurosurgery*. 2009. 64(2 suppl): A84-90.
32. **Lim M**, Bower R, Wang Y, Sims L, Cheshier S, Harsh GR, Steinberg GK, Guccione S. The Predictive Value of Serum Myeloperoxidase in Vasospasm in Patients with Aneurysmal Subarachnoid Hemorrhage. Submitted to *Cerebrovasc Dis*.
33. Cheshier SH, Kalani MYS, **Lim M**, Ailles L, Huhn SL, Weissman IL. A neurosurgeon's guide to stem cells, cancer stem cells, and brain tumor stem cells. *Neurosurgery*. In press
34. Frazier JL, Batra S, Kapor S, Gandhi R, Carson K, Shokek O, **Lim M**, Kleinberg L, and Rigamonti D. Stereotactic Radiosurgery in the Management of Brain Metastases: an institutional retrospective analysis of survival. *Int J Radiat Oncol Biol Phys*. In press
35. Kim G, Jee SH, **Lim M**, Yun JE, Park IS, Samet JM. Smoking and other risk factors for brain cancer in the Korean cancer prevention study. Submitted to *Journal of Neuro-Onc*.
36. Sun DQ, Cheng J, Frazier JL, Batra S, Wand G, Kleinberg LR, Rigamonti D, Quinones-Hinojosa A, Salvatori R, **Lim M**. Treatment of pituitary adenomas using radiosurgery and radiotherapy: A single center experience and review of literature. Submitted to TCRT.
37. Sun DQ, Carson KA, Raza SM, Batra S, Kleinberg LR, **Lim M**, Huang J, Rigamonti D. The radiosurgical treatment of arteriovenous malformations: obliteration, morbidities, and performance status. Submitted to JNNP.

*Co-Authors

Chapters

1. **Lim M**, Harsh GH. Neuro-Oncology: Overview. Principles of Neurosurgery. 2nd ed. Rengachary SS, Wilkins RH. 2005.
2. **Lim M**, Sinclair J, Jayaraman MV, Chang SD. Neurobase. Vein of Galen Malformations. Gilman S, Goldstein GW, Waxman SG. Medlink.com. 2004.
3. **Lim M**, Chang SD. CyberKnife Radiosurgery for Glomus Jugulare Tumors. Cyberknife Users Textbook. Mould R. Cyberknife Society. 2005.
4. **Lim M**, Sinclair J, Jayaraman MV, Chang SD. Neurobase. Vein of Galen Malformations. Gilman S, Goldstein GW, Waxman SG. Medlink.com. 2005.

5. **Lim M**, Guzman R, Kelly M, Steinberg GK. Arteriovenous Malformations in the Basal Ganglia and Thalamus. AANS Operative Atlas 2nd ed. Thieme. In Press.
6. **Lim M**, Sinclair J, Jayaraman MV, Chang SD. Neurobase. Vein of Galen Malformations. Gilman S, Goldstein GW, Waxman SG. Medlink.com. 2006.
7. **Lim M**, Sinclair J, Jayaraman MV, Chang SD. Neurobase. Vein of Galen Malformations. Gilman S, Goldstein GW, Waxman SG. Medlink.com. 2007.
8. Li G, **Lim M**. Craniotomy for Surgically Resectable Glioblastoma Multiforme. Tricks of the Trade. In press.
9. Li G, Agarawal S, **Lim M**. Trans-Jugular Approach for Glomus Jugulare Tumors. Tricks of the Trade. In press.
10. **Lim M**. Stereotactic Biopsies: Superficial. Fundamentals of Operative Techniques in Neurosurgery. Connolly ES, McKhann II GM, Huang J, Choudhri TF. Thieme. In Press.
11. Pradilla G, **Lim M**. Stereotactic Biopsies: Deep. Fundamentals of Operative Techniques in Neurosurgery. Connolly ES, McKhann II GM, Huang J, Choudhri TF. Thieme. In Press.
12. **Lim M**. Parasagittal and Convexity Meningiomas. Fundamentals of Operative Techniques in Neurosurgery. Connolly ES, McKhann II GM, Huang J, Choudhri TF. Thieme. In Press.
13. Frazier JL, **Lim M**, Weingart JD. Surgical Management of Intracranial Metastases. Intracranial Metastases. Kleinberg L. In Press

Published Abstracts

1. **Lim M**, Harsh GH, Haddix T, Vogel H, Chu P, Steinberg GK, Guccione S. Characterization of the Integrin $\alpha v \beta 3$ in Vascular Malformations. *Stroke*. 2005 Feb;26(2):517.
2. **Lim M**, Wang Y, Bower R, Cheshier S, Sims L, Choi S, Harsh GH, Steinberg GK, Guccione S. Elevated Serum Levels of VEGF, bFGF, MMP-2, and MMP-9 in Patients with Moyamoya Disease. *Stroke* 2006 Feb 37: 701.

Published Comments

1. **Lim M**, Steinberg GK. Integrins in Arteriovenous and Cavernous Malformations: Comment. *Neurosurgery*. 2006. Jan; 58(1): 167.
2. **Lim M**, Chang SD. Recurrent Craniofacial Meningiomas: Comment. *Neurosurgery*. 2006 May;58(5):880.

GUEST SPEAKER

1. October 2006 University of Utah
Salt Lake City, UT
Blood Vessel Pathologies in CNS Diseases
Grand Rounds Speaker

2. November 2006
Dartmouth College
Hanover, NH
Blood Vessel Pathologies in CNS Diseases
Grand Rounds Speaker
3. November 2006
Mayo Clinic
Rochester, MN
Blood Vessel Pathologies in CNS Diseases
Grand Rounds Speaker
4. November 2006
Johns Hopkins University
Baltimore, MD
Blood Vessel Pathologies in CNS Diseases
Grand Rounds Speaker
5. September 2008
3rd Annual International Updates in Neuro-Oncology
Baltimore, MD
Immunotherapy for Brain Tumors
Guest Speaker
6. October 2008
Southern Maryland Hospital
Clinton, MD
Pituitary Tumors
Grand Rounds Speaker
7. October 2008
Thomas Jefferson Hospital, Philadelphia PA
Management of Cerebral Brain Metastases
Grand Rounds Speaker
8. December 2008
York Wellspan Hospital
York, PA
Head Trauma
Grand Rounds Speaker
9. January 2009
Wilmington VA Medical Center
Wilmington, DE
Management of Brain Metastases
Grand Rounds Speaker
10. January 2009
Caribbean Neurosciences Symposium
Montego Bay, Jamaica
Image Guided Surgery
Honored Guest Speaker
11. January 2009
Sinai Hospital
Baltimore, MD
Immunotherapy for Brain Tumors
Grand Rounds Speaker
12. April 2009
Johns Hopkins Undergraduate Research Conference
Baltimore, MD
Technology in Neurosurgery
Invited Speaker
13. June 2009
Johns Hopkins Hospital – Dept of Otolaryngology
Baltimore, MD
Radiosurgery for Skull Based Tumors
Grand Rounds Speaker

14. July 2009 St. Matthews Hospital
Grand Cayman Islands
Technology in Neurosurgery
CME Guest Speaker

COMMITTEES

2007 – present Young Neurosurgeons Committee
2007-2009 Scientific Committee of the American Society for Clinical
Oncology (ASCO)

NATIONAL MEETING ACTIVITIES

April 2008 Platform Chairman for CNS Session at ASCO
April 2009 Platform Chairman for CNS Session at ASCO
May 2009 Discussant for AANS Tumor Session
May 2009 Moderator for AANS Tumor Session

TEACHING

October 2007 Johns Hopkins Department of Neurosurgery Grand Rounds
Topic: 1p19q Deletion in Oligodendrogliomas
December 2007 Johns Hopkins Department of Neurosurgery Grand Rounds
Topic: Radiosurgery for Trigeminal Neuralgia
March 2008 Johns Hopkins Department of Neurosurgery Grand Rounds
Topic: Radiosurgery for Glomus Jugulare Tumors
May 2008 Blaustein Pain Conference – Johns Hopkins
Topic: Radiosurgery for Trigeminal Neuralgia
June 2008 Oncology Grand Rounds – Johns Hopkins
Topic: Radiosurgery for Metastatic Brain Tumors
July 2008 Johns Hopkins Department of Neurosurgery Grand Rounds
Topic: Stereotactic Spinal Radiosurgery
July 2008 Johns Hopkins Department of Neurosurgery Grand Rounds
Topic: Management of Cerebral Brain Metastases
March 2009 Johns Hopkins Department of Medicine Grand Rounds
Topic: Management of Cerebral Brain Metastases
March 2009 Johns Hopkins Department of Radiation Oncology Resident Rounds
Topic: Management of Cerebral Brain Metastases
June 2009 Hopkins Sinus and Skull Base Course: Faculty
Topic: Endoscopic Approaches to the Sella

MENTORING

Frazier J NREF Fellowship
Woodworth, G T32 NIH Fellowship
Pradilla, G T32 NIH Fellowship

MEMBERSHIPS

Congress of Neurological Surgeons (CNS)
American Association of Neurological Surgeons (AANS)
Society for Neuro-Oncology (SNO)
American Society for Clinical Oncology (ASCO)

PRESENTATIONS

1. May 1995
University of New Hampshire Board of Trustees
Durham, NH
Lim M, Lesser M, Walker CW Characterization of the Molecular Pathway involved in Spermatogenesis of *Asterias vulgaris*.
2. June 1995
Capital Budget Committee, New Hampshire Senate
Durham, NH
Lim M, Lesser M, Walker CW Characterization of the Molecular Pathway involved in Spermatogenesis of *Asterias vulgaris*.
3. June 1995
Public Works Committee, New Hampshire House of Representatives
Durham, NH
Lim M, Lesser M, Walker CW Characterization of the Molecular Pathway involved in Spermatogenesis of *Asterias vulgaris*.
4. December 1995
University of New Hampshire Undergraduate Research
Conference - Durham, NH
Lim M, Lesser M, Walker CW. Growth Factor Kinases and Spermatogenesis in the Sea Star, *Asterias Vulgaris*.
5. December 1995
American Society for Cell Biology - San Francisco, CA
Walker CW, Lesser MP, Demian DJ, Hallonquist H, **Lim M**. Signal Transduction During Spermatogonial G1/S-Phase Traverse.
6. December 1998
American Association of Cancer Research for Prostate
Cancer - Palm Springs, CA
Mikhak B, DeMarzo A, Chang JF, **Lim M**, Carducci MA, Weber CE, Clift SM, Goemann M, Marshall FE, Piantadosi S, Nelson WG, and Simons JW. Characterization of Activated T-cell and B-cell Responses to Human Prostate Cancer Associated Antigens by Vaccination with Ex Vivo GM-CSF gene Transduced Autologous Irradiated Prostate Cancer.
7. April 1999
American Association of Cancer Research - Philadelphia, PA
Zhong H, DeMarzo AM, Laughner E, **Lim M**, Hilton DA, Zagzag D, Puechler P, Isaacs WB, Semenza GL, and Simons JW. HIF-1 α Expression in Various Human Tumor Cell Lines.
8. April 1999
American Association of Cancer Research - Philadelphia, PA
Mikhak B, DeMarzo A, Chang JF, **Lim M**, Carducci MA, Weber CE, Clift SM, Goemann M, Marshall FE, Piantadosi S, Nelson WG, and Simons JW. Characterization of Activated T-cell and B-cell Responses to Human Prostate Cancer Associated Antigens by Vaccination with Ex Vivo GM-CSF Gene Transduced Autologous Irradiated Prostate Cancer.
9. May 1999
American Society of Clinical Oncology - Atlanta, GA
Mikhak B, DeMarzo A, Chang JF, **Lim M**, Carducci MA, Weber CE, Clift SM, Goemann M, Marshall FE, Piantadosi S, Nelson WG, and Simons JW. Characterization of Activated T-cell and B-cell Responses to Human Prostate Cancer Associated Antigens by Vaccination with Ex Vivo GM-CSF Gene Transduced Allogeneic Irradiated Prostate Cancer.
10. May 1999
Howard Hughes Medical Institute
Washington DC
Lim M, Carducci MA, Mikhak B, Biedrzycki B, Borrellini F, Clift SM, Hege KM, Ando DG, Piantadosi S, Mulligan R, Nelson WG, Simons JW,. Characterization of the Human Th-2 Effector Response with *ex vivo* GM-CSF Gene Transduced Prostate Cancer Vaccines. Oral
11. October 2002
Congress of Neurological Surgeons - Chicago, IL
Lim M, Gibbs I, Adler J, Martin D, Chang S. The Efficacy of Stereotactic Radiosurgery in Treating Glomus Jugulare Tumors.

12. October 2003 Congress of Neurological Surgeons - Denver, CO
Lim M, Chang S, Segall G, Skirboll S. Use of MRS and PET in Differentiating Recurrent Tumor from Tumor Necrosis.
13. March 2004 American Association for Cancer Research - Orlando, FL
Xie J, **Lim M**, Harsh G, Homer R, Atlas S, Li K, Bednarski M, Guccione S. Differential Expression of the Integrin $\alpha\beta3$ in Human Glioblastoma in the Permeable Regions of the Tumor as Determined by Magnetic Resonance Imaging.
14. March 2004 American Association for Cancer Research - Orlando, FL
Azok J, Guccione S, **Lim M**, Harsh G, Atlas S, Homer R, Li K, Bednarski M. Proteomics of Human Glioblastoma Multiforme: Correlation of Serum Proteomic Patterns to Tissue Proteomic Patterns and Magnetic Resonance Imaging.
15. May 2004 American Association of Neurological Surgeons - Orlando, FL
Lim M, Guccione S, Tse V, Haddix T, Homer R, Atlas S, Harsh G. Expression of $\alpha\beta3$ integrin in Human Glioblastoma Multiforme.
16. May 2004 American Association of Neurological Surgeons - Orlando, FL
Massengale JL, Do H, Marcellus M, **Lim M**, Lane B
Symptomatic Improvement After Vertebroplasty for Acute Traumatic Spinal Compression Fractures.
17. August 2004 Hanbery Society
Palo Alto, CA
Lim M, Guccione S, Sims L, Azok J, King L, Bednarski M, Harsh G. Serum Markers for Glioblastoma Multiforme.
18. October 2004 Congress of Neurological Surgeons - San Francisco, CA
Lim M, Romanelli P, Lee E, Gibbs I, Chang SD, Adler JR.
Stereotactic Radiosurgery Using CT Cisternography and Non-Isocentric Planning for the Treatment of Trigemina Neuralgia.
19. October 2004 Congress of Neurological Surgeons - San Francisco, CA
Lim M, Gibbs I, Adler JR, Chang SD. Stereotactic Radiosurgery as an Effective and Safe Mode of Therapy for Glomus Jugulare Tumors.
20. October 2004 Congress of Neurological Surgeons - San Francisco, CA
Lim M, Guccione S, Haddix T, Cheshier S, Chu P, Vogel H, Harsh G. Role of the $\alpha\beta3$ Integrins in Angiogenesis of CNS Tumors.
21. October 2004 American Association of Neurological Surgeons
Section on Tumors - San Francisco, CA
Lim M, Guccione S, Sims L, Azok J, King L, Bednarski M, Harsh G. Identification of Serum Markers for GBMs using Mass Spectroscopy.
22. October 2004 Western Neurosurgical Meeting - San Diego, CA
Adler JR, **Lim M**, Romanelli P, Lee E, Gibbs I, Chang SD.
Stereotactic Radiosurgery Using CT Cisternography and Non-Isocentric Planning for the Treatment of Trigemina Neuralgia.
23. November 2004 Society for Neuro-Oncology - Toronto, Canada
Lim M, Harsh G, Azok J, King L, Bednarski M, Guccione S.

Identification of Blood Markers for GBMs with the Aid of Genomic Array and MRI.

24. January 2005 Cyberknife Society Meeting - Half Moon Bay, CA
Lim M, Romanelli P, Lee E, Gibbs I, Chang SD, Adler JR. Stereotactic Radiosurgery Using CT Cisternography and Non-Isocentric Planning for the Treatment of Trigemina Neuralgia.
25. February 2005 American Association of Neurological Surgeons - Vascular Section - New Orleans, LA
Lim M, Guccione S, Haddix T, Chu P, Vogel H, Steinberg GK, Harsh G. Characterization of the Integrin $\alpha v \beta 3$ in Arteriovenous Malformations and Cavernous Malformations.
26. February 2005 Stroke – New Orleans, LA
Lim M, Guccione S, Haddix T, Chu P, Vogel H, Steinberg GK, Harsh G. Characterization of the Integrin $\alpha v \beta 3$ in Arteriovenous Malformations and Cavernous Malformations.
27. April 2005 American Association of Neurological Surgeons
New Orleans, LA
Lim M, Guccione S, Sims L, Azok J, King L, Bednarski M, Harsh G. Identification of blood markers for GBMs with the aid of genomic array and MRI.
28. April 2005 American Association of Neurological Surgeons - New Orleans, LA
Lim M, Guccione S, Haddix T, Chu P, Vogel H, Steinberg GK, Harsh G. Characterization of the Integrin $\alpha v \beta 3$ in Arteriovenous Malformations and Cavernous Malformations.
29. April 2005 American Association of Neurological Surgeons - New Orleans, LA
Cheshier S, AillesL, Skirboll S, Uchida N, Dohse, **Lim M**, Guccione S, Huhn S, Weissman I. Growth of GBM Tumors in RAG 2 and Common Cytokine Receptor Gamma Chain Double Knock Out Mice: A New Model for in vivo Study of GBM and Isolation of Tumor Stem Cells.
30. April 2005 American Association of Cancer Researchers - Anaheim, CA
Guccione S, Yang Y, Chia Y, Wang Y, **Lim M**, Harsh GR, Atlas S, Bednarski M. Regions Associated with High Vascular Permeability in Human Glioblastoma Multiforme: Identification and Characterization by Contrast-Enhanced MRI and Microarray Analysis.
31. May 2005 Society of Neurological Surgeons
Palo Alto, CA
Lim M, Guccione S, Sims L, Choi S, Wang Y, Bednarski M, Harsh G. A Targeted Antiangiogenic Approach Against Glioblastoma Multiforme.
32. October 2005 Congress of Neurological Surgeons - Boston, MA
Lim M, Villavicencio A, Burneikiene S, Chang SD, Romanelli P, McNeely L, McIntyre M, Thramann J, Adler J. Multicenter Clinical Evaluation of CyberKnife Radiosurgery for Idiopathic Trigeminal Neuralgia.
33. October 2005 Congress of Neurological Surgeons - Boston, MA
Lim M, Wang Y, Sims L, Cheshier S, Choi S, Bower R, Steinberg GK, Harsh GR, Guccione S. Novel Serum Markers for Vasospasm in Patients with Subarachnoid Hemorrhages.

34. October 2005 Congress of Neurological Surgeons - Boston, MA
Cheshier S, Ailles L, **Lim M**, Laddis P, Tse V, Weissman I, Huhn SH. Flow Cytometric Analysis of Neural Stem Cell Markers on Pediatric Brain Tumors.
35. December 2005 Radiological Society of North America - Chicago, IL
Lim M, Sims L, Choi S, Wang Y, Harsh GR, Guccione S
Integrin Targeted Nanoparticles for Imaging and Therapeutics with Application in Brain Tumor Models.
36. December 2005 Radiological Society of North America - Chicago, IL
Sims L, Yang Y, **Lim M**, Harsh GR, Guccione S.
Investigating the Effects of Brain Tumor Metabolism and Progression Following Antiangiogenic Therapy using MicroPET and MRI—An Orthotopic Rat Tumor Model.
37. May 2006 CyberKnife User's Meeting - Moon Bay, CA
Villavicencio A, **Lim, M**, Burneikiene S, Chang SD, Romanelli P, McNeely L, McIntyre M, Thramann JJ, Adler JR.
Evaluation of CyberKnife Radiosurgery for Idiopathic Trigeminal Neuralgia. Multicenter Clinical Study.
38. February 2006 American Association of Neurological Surgeons
Vascular Section - Orlando, FL
Lim M, Wang Y, Bower R, Cheshier S, Sims L, Choi S, Harsh GH, Steinberg GK, Guccione S. Elevated Serum Levels of VEGF, bFGF, MMP-2, and MMP-9 in Patients with Moyamoya Disease.
39. February 2006 Stroke -Kissimmee, FL
Lim M, Wang Y, Bower R, Cheshier S, Sims L, Choi S, Harsh GH, Steinberg GK, Guccione S. Elevated Serum Levels of VEGF, bFGF, MMP-2, and MMP-9 in Patients with Moyamoya Disease.
40. April 2006 American Association of Neurological Surgeons
San Francisco, CA
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Dosimetric Impact of intra-fraction motion on image guided Stereotactic body radiotherapy of spinal metastasis.
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