



Michael Lim, M.D.

Stanford Medicine Endowed Chair of the Department of Neurosurgery, Professor of Neurosurgery and, by courtesy, of Radiation Oncology, of Medicine, of Otolaryngology - Head & Neck Surgery (OHNS) and of Neurology and Neurological Sciences

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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4th Fl MC 5958

Palo Alto, CA 94304

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Ann Crevelt - Executive Assistant

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Bio

BIO

Dr. Lim is the Chair of the Department of Neurosurgery and a board-certified neurosurgeon specializing in brain tumors and trigeminal neuralgia.

Dr. Lim's clinical interests include the treatment of benign and malignant brain tumors, with special interest in gliomas, meningiomas, metastatic tumors, and skull base tumors. Dr. Lim also specializes in surgical treatments for trigeminal neuralgia. During his time at Johns Hopkins, Dr. Lim built one of the largest brain tumor and trigeminal neuralgia practices and utilized the most advanced surgical technologies and techniques for his patients. As a passionate voice for patient experience, he has been recognized by his peers and patients for his integrity and compassionate care, including a Service Excellence Award from HealthNetwork Foundation.

As a mentor, he has garnered numerous teaching awards, including being honored as an outstanding teacher by Johns Hopkins University School of Medicine. He is actively involved in shaping education for neurosurgery and oncology across the United States and around the world. He is the recipient of the prestigious 2023 Abhijit Guha Award in Neuro-Oncology.

Dr. Lim's research interests focus on harnessing the immune system to fight cancer. His laboratory focuses on understanding mechanisms of immune evasion by cancer cells. He has successfully translated his findings from the laboratory to the clinics and has conducted and led several large national immunotherapy clinical trials for brain tumors.

Dr. Lim's bibliography contains well over 300 articles on topics such as immunotherapy for glioblastoma, long-term survival of glioma patients treated with stereotactic radiation, and treatment of neuropathic pain. His work has appeared in Science Translational Medicine, Clinical Cancer Research, Lancet Oncology, Nature Immunology, and many more publications. He also has written 20 book chapters and monographs.

Dr. Lim is a world leader in immunotherapy for brain tumors. In addition to being invited world-wide to give lectures and seminars, he has given platform presentations on the topics of immunotherapy for brain tumors, neurosurgical techniques and management of brain tumors at the American Society of Clinical Oncologists, American Academy of Neurological Surgeons, Radiological Society of North America, Annual Symposium on Brain and Spine Metastases, Congress of Neurological Surgeons, and other meetings. In addition, he has served as platform chairman of the CNS session at the American Society for Clinical Oncology conference.

Dr. Lim is a member of the American Society for Clinical Oncology, Congress of Neurological Surgeons, American Association of Neurological Surgeons, and Society for Neuro-Oncology. Dr. Lim served as the program co-chair of the Society for Neuro-Oncology and CNS section of the American Society for Clinical Oncology. He also served on many executive committees, including the Executive Committee for the Joint Tumor Section of the American Association of Neurological Surgeons and Congress of Neurological Surgeons.

Trigeminal neuralgia treatment: <https://www.youtube.com/watch?v=-n8nvkwZik>

Trigeminal neuralgia patient stories: <https://www.youtube.com/watch?v=kClePRPYIQs&t=1s>

CLINICAL FOCUS

- Neurosurgery

ACADEMIC APPOINTMENTS

- Professor, Neurosurgery
- Professor (By courtesy), Radiation Oncology - Radiation Therapy
- Professor (By courtesy), Medicine - Oncology
- Professor (By courtesy), Otolaryngology (Head and Neck Surgery)
- Professor (By courtesy), Neurology & Neurological Sciences
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Abhijit Guha Award, AANS/CNS Section on Tumors and Society of Neuro-Oncology (September 2023)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Co-Chair, SNO Scientific Program Committee (2018 - 2020)
- Member, NCI Brain Malignancy Steering Committee (2021 - present)

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Neurosurgery (2007) CA
- Board Certification: Neurosurgery, American Board of Neurological Surgery (2012)
- Medical Education: Johns Hopkins University School of Medicine (2000) MD

LINKS

- Lim Lab: <https://limlab.sites.stanford.edu/>

- Stanford Facial Pain Program: <https://stanfordhealthcare.org/medical-clinics/facial-pain-program.html>
- Stanford Medicine - Trigeminal Neuralgia (2022): <https://stanfordhealthcare.org/medical-conditions/brain-and-nerves/trigeminal-neuralgia.html>
- Understanding Trigeminal Neuralgia (2022): <https://www.youtube.com/watch?v=kClePRPYIQs>
- Washington Post - Health and Science - Patient with Trigeminal Neuralgia (2016): https://www.washingtonpost.com/national/health-science/he-couldnt-eat-drink-or-work-and-doctors-couldnt-explain-his-searing-pain/2016/03/14/87c791ee-bc8c-11e5-829c-26ffb874a18d_story.html
- Readers Digest - Patient with Trigeminal Neuralgia (2013): <https://www.thebaynet.com/articles/0313/owings-woman-featured-in-readers-digest.html>
- Facial Pain Association - Overview of Trigeminal Neuralgia: <https://www.facepain.org/webinars/overview-of-trigeminal-neuralgia/>
- Facial Pain Association - Diagnosis and Treatment for Facial Pain: <https://www.facepain.org/webinars/diagnosis-and-treatment-for-facial-pain/>
- Blog - More Than Just Brain Surgery (2022): <https://www.neurosurgeryblog.org/2022/07/19/neurosurgical-oncologists-pushing-the-field-forward/>
- Podcast - Optimal neurospine - Immunotherapy for brain tumors. a conversation with Dr Michael Lim (2021): <https://www.buzzsprout.com/1771041/8816755>
- Car T-Cells: <https://t.e2ma.net/message/u5cime/et0nz6d>
- STEMPod Leaders - Treating Brain Tumors - Dr Michael Lim (2021): <https://www.youtube.com/watch?v=6HxNTh9f3EI>
- Focused Ultrasound Foundation Webinar - Michael Lim - Immunotherapy for Brain Tumors (2020): <https://www.youtube.com/watch?v=9Af8PyutASY>
- Miami Global Tumor Symposium (Nov 2020): <https://www.youtube.com/watch?v=2Tuv6BTf71w>
- University of Miami Cerebrovascular and Skull Base International Symposium (2020): <https://www.youtube.com/watch?v=WeeB4cxpoNo>
- Frontiers in Oncology - Michael Lim (2020): <https://www.youtube.com/watch?v=-Hd-mp6D-ZY>
- Fire in the Smoke: Battling Brain Tumors with Michael Lim (2018): <https://www.youtube.com/watch?v=oLJwmYCVetC>
- Immunotherapy for Brain Tumors - ABTA (2018): <https://www.youtube.com/watch?v=ljyZLkTslrQ>
- Medscape - SITC - The Brain, Immune Privilege, and Immunotherapy: Proof in Concept (2017): <https://www.medscape.org/viewarticle/877106>
- Medscape - Advances in the Treatment of Glioblastoma Multiforme: Is there a Role for Immune Checkpoint Inhibitors? (2017): <https://www.medscape.org/viewarticle/878294>
- ABTA Webinar - Metastatic Brain Tumors: What Patients Need to Know (2016): <https://www.youtube.com/watch?v=fbaeG8tGHVQ>
- Dr Michael Lim on Toxicities of Checkpoint Inhibitors in Glioblastoma (2016): <https://www.youtube.com/watch?v=uR3T4sCdl3s>
- Onc Live - Dr Michael Lim on Toxicities of Checkpoint Inhibitors (2015): <https://www.onclive.com/view/dr-michael-lim-on-toxicities-of-checkpoint-inhibitors>
- Wired Magazine - Toolkit: A Neurosurgeon's Must-Have (2010): <https://www.wired.com/2010/11/st-toolkit-surgery/>
- Trigeminal neuralgia patient stories: <https://www.youtube.com/watch?v=kClePRPYIQs&t=1s>
- Trigeminal neuralgia treatment: <https://stanfordhealthcare.org/stanford-health-care-now/videos/trigeminal-neuralgia-treatment-options-michael-lim-md.html>

Research & Scholarship

CLINICAL TRIALS

- Autologous B7-H3 Chimeric Antigen Receptor T Cells in Relapsed/Refractory Solid Tumors, Recruiting
- Study Assessing QBS72S for Treating Brain Metastases, Recruiting
- B7-H3 Chimeric Antigen Receptor T Cells (B7-H3CART) in Recurrent Glioblastoma Multiforme, Not Recruiting
- Study to Evaluate the Efficacy and Safety of Pemigatinib in Participants With Previously Treated Glioblastoma or Other Primary Central Nervous System Tumors Harboring Activating FGFR1-3 Alterations, Not Recruiting
- Surgical Nivolumab And Ipilimumab For Recurrent GBM, Not Recruiting
- Trial of Anti-Tim-3 in Combination With Anti-PD-1 and SRS in Recurrent GBM, Not Recruiting

Teaching

COURSES

2023-24

- Neurosurgical Frameworks for Clinical Neuroscience: NSUR 123 (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Matthew Abikenari, Brandon Bergsneider, Alexander Ren, Janet Wu

Doctoral Dissertation Reader (AC)

Rebecca Mancusi, Benjamin Oberlton

Postdoctoral Faculty Sponsor

Kwang Bog Cho, Caren Wu

Doctoral Dissertation Advisor (NonAC)

Jocelyn Padilla

Publications

PUBLICATIONS

- **The cytokine Meteorin-like inhibits anti-tumor CD8+ T cell responses by disrupting mitochondrial function.** *Immunity*
Jackson, C. M., Pant, A., Dinalankara, W., Choi, J., Jain, A., Nitta, R., Yazigi, E., Saleh, L., Zhao, L., Nirschl, T. R., Kochel, C. M., Hwa-Lin Bergsneider, B., Routkevitch, et al
2024
- **Identification of the NRF2 transcriptional network as a therapeutic target for trigeminal neuropathic pain.** *Science advances*
Vasavda, C., Xu, R., Liew, J., Kothari, R., Dhindsa, R. S., Semenza, E. R., Paul, B. D., Green, D. P., Sabbagh, M. F., Shin, J. Y., Yang, W., Snowman, A. M., Albacarys, et al
2022; 8 (31): eabo5633
- **Effect of Nivolumab vs Bevacizumab in Patients With Recurrent Glioblastoma The CheckMate 143 Phase 3 Randomized Clinical Trial** *JAMA ONCOLOGY*
Reardon, D. A., Brandes, A. A., Omuro, A., Mulholland, P., Lim, M., Wick, A., Baehring, J., Ahluwalia, M. S., Roth, P., Baehr, O., Phuphanich, S., Sepulveda, J., De Souza, et al
2020; 6 (7): 1003–10
- **Retrosigmoid approach for glycerin rhizotomy in the treatment of trigeminal neuralgia without overt arterial compression: updated case series** *JOURNAL OF NEUROSURGERY*
Kim, T. Y., Jackson, C. M., Xia, Y., Mashouf, L. A., Patel, K. K., Kim, E. S., Hung, A. L., Wu, A., Garzon-Muvdi, T., Bender, M. T., Bettgowda, C., Lee, J. K., Lim, et al
2020; 132 (4): 1227–33
- **A Phase 2 Study of Post-Operative Stereotactic Body Radiation Therapy (SBRT) for Solid Tumor Spine Metastases** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Redmond, K. J., Sciuabba, D., Khan, M., Gui, C., Lo, S., Gokaslan, Z. L., Leaf, B., Kleinberg, L., Grimm, J., Ye, X., Lim, M.
2020; 106 (2): 261–68
- **Carboxylated branched poly(beta-amino ester) nanoparticles enable robust cytosolic protein delivery and CRISPR-Cas9 gene editing** *SCIENCE ADVANCES*
Rui, Y., Wilson, D. R., Choi, J., Varanasi, M., Sanders, K., Karlsson, J., Lim, M., Green, J. J.
2019; 5 (12): eaay3255
- **Mechanisms of immunotherapy resistance: lessons from glioblastoma** *NATURE IMMUNOLOGY*

- Jackson, C. M., Choi, J., Lim, M.
2019; 20 (9): 1100–1109
- **Immediate and Long-Term Outcomes of Microvascular Decompression for Mixed Trigeminal Neuralgia** *WORLD NEUROSURGERY*
Wu, A., Doshi, T., Hung, A., Garzon-Muvdi, T., Bender, M. T., Bettegowda, C., Lim, M.
2018; 117: E300–E307
 - **Current state of immunotherapy for glioblastoma** *NATURE REVIEWS CLINICAL ONCOLOGY*
Lim, M., Xia, Y., Bettegowda, C., Weller, M.
2018; 15 (7): 422–42
 - **Combination Therapy with Anti-PD-1, Anti-TIM-3, and Focal Radiation Results in Regression of Murine Gliomas** *CLINICAL CANCER RESEARCH*
Kim, J. E., Patel, M. A., Mangraviti, A., Kim, E. S., Theodros, D., Velarde, E., Liu, A., Sankey, E. W., Tam, A., Xu, H., Mathios, D., Jackson, C. M., Harris-Bookman, et al
2017; 23 (1): 124–36
 - **Anti-PD-1 antitumor immunity is enhanced by local and abrogated by systemic chemotherapy in GBM** *SCIENCE TRANSLATIONAL MEDICINE*
Mathios, D., Kim, J. E., Mangraviti, A., Phallen, J., Park, C., Jackson, C. M., Garzon-Muvdi, T., Kim, E., Theodros, D., Polanczyk, M., Martin, A. M., Suk, I., Ye, et al
2016; 8 (370): 370ra180
 - **Systemic Tolerance Mediated by Melanoma Brain Tumors Is Reversible by Radiotherapy and Vaccination** *CLINICAL CANCER RESEARCH*
Jackson, C. M., Kochel, C. M., Nirschl, C. J., Durham, N. M., Ruzevick, J., Alme, A., Francica, B. J., Elias, J., Daniels, A., Dubensky, T. W., Lauer, P., Brockstedt, D. G., Baxi, et al
2016; 22 (5): 1161–72
 - **Anti-PD-1 Blockade and Stereotactic Radiation Produce Long-Term Survival in Mice With Intracranial Gliomas** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Zeng, J., See, A. P., Phallen, J., Jackson, C. M., Belcaid, Z., Ruzevick, J., Durham, N., Meyer, C., Harris, T. J., Albesiano, E., Pradilla, G., Ford, E., Wong, et al
2013; 86 (2): 343–49
 - **Nervus intermedius sectioning for the treatment of geniculate neuralgia.** *Journal of neurosurgery*
Ren, A. L., Ehsani, A., Park, D. J., Persad, A. R., Wu, J. Y., Hall, J. C., Zhang, M., Choi, J., Kim, L. H., Xu, R., Chang, S. D., Lim, M.
2025: 1-8
 - **Deep learning-based segmentation of the trigeminal nerve and surrounding vasculature in trigeminal neuralgia.** *Journal of neurosurgery*
Halbert-Elliott, K. M., Xie, M. E., Dong, B., Das, O., Wang, X., Jackson, C. M., Lim, M., Huang, J., Yedavalli, V. S., Bettegowda, C., Xu, R.
2025: 1-9
 - **Molecular-based decision-making in glioblastoma surgery: when to aim for supramaximal resection.** *Neuro-oncology*
Drexler, R., Lim, M., Hervey-Jumper, S. L.
2025
 - **Effects of the length of preoperative conservative management on postoperative outcomes after primary microvascular decompression for trigeminal neuralgia.** *Journal of neurosurgery*
Kalluri, A. L., Ejimogu, E., Chandan Reddy, S., Nair, S. K., Alkhars, H., Kilgore, C., Abdulrahim, M., Yedavalli, V., Lim, M., Jackson, C. M., Huang, J., Bettegowda, C., Xu, et al
2025: 1-8
 - **Distinct myeloid-derived suppressor cell populations in human glioblastoma.** *Science (New York, N.Y.)*
Jackson, C., Cherry, C., Bom, S., Dykema, A. G., Wang, R., Thompson, E., Zhang, M., Li, R., Ji, Z., Hou, W., Zhan, W., Zhang, H., Choi, et al
2025; 387 (6731): eabm5214
 - **Effects of diagnosed depression on postoperative outcomes after microvascular decompression for patients with trigeminal neuralgia.** *Clinical neurology and neurosurgery*
Kalluri, A. L., Ejimogu, E., Reddy, S. C., Wang, E., Nair, S. K., Kilgore, C., Al-Khars, H., Abdulrahim, M., Yedavalli, V., Lim, M., Jackson, C. M., Huang, J., Bettegowda, et al
2025; 250: 108733

- **Tumor-Associated Microglia Secrete Extracellular ATP to Support Glioblastoma Progression.** *Cancer research*
Wu, C. Y., Chen, Y., Lin, Y. J., Wei, K. C., Chang, K. Y., Feng, L. Y., Chen, K. T., Li, G., Ren, A. L., Nitta, R. T., Wu, J. Y., Cho, K. B., Pant, et al
2024; 84 (23): 4017-4030
- **Outcomes of Management of Progressive Radiosurgery-Treated Brain Metastasis With Resection Followed by Pathology-Informed Management: A Retrospective Study** *NEUROSURGERY PRACTICE*
Bhatia, R. K., George, J., Siu, C., Lee, E., Redmond, K. J., Baker, B., Jackson, C. M., Bettgowda, C., Mukherjee, D., Hobbs, R. F., Weingart, J., Lim, M., Kleinberg, et al
2024; 5 (4)
- **Outcomes of Management of Progressive Radiosurgery-Treated Brain Metastasis With Resection Followed by Pathology-Informed Management: A Retrospective Study.** *Neurosurgery practice*
Bhatia, R. K., George, J., Siu, C., Lee, E., Redmond, K. J., Baker, B., Jackson, C. M., Bettgowda, C., Mukherjee, D., Hobbs, R. F., Weingart, J., Lim, M., Kleinberg, et al
2024; 5 (4): e00117
- **The landscape of immune checkpoint inhibitor clinical trials in glioblastoma: A systematic review.** *Neuro-oncology advances*
Schonfeld, E., Choi, J., Tran, A., Kim, L. H., Lim, M.
2024; 6 (1): vdae174
- **EVALUATION OF PAXALISIB IN GBM AGILE PHASE 3 REGISTRATION PLATFORM TRIAL FOR NEWLY DIAGNOSED AND RECURRENT GLIOBLASTOMA**
Mellinghoff, I. K., Cloughesy, T., Alexander, B., Berry, D. A., Buxton, M., Cavenee, W., Colman, H., de Groot, J., Ellingson, B. M., Gordon, G. B., Lassman, A. B., Lim, M., Khasraw, et al
OXFORD UNIV PRESS INC.2024
- **INFIGRATINIB INHIBITION OF THE THBS1 PATHWAY IN MELANOMA BRAIN METASTASIS**
Tran, A., Choi, J., Bergsneider, B., Kim, L., Schonfeld, E., Abikenari, M., Verma, R., Cho, K., Lim, M.
OXFORD UNIV PRESS INC.2024
- **REPROGRAMMING OF MYELOID CELL METABOLISM VIA HEME OXYGENASE-1 INHIBITION POTENTIATES ANTI-TUMOR IMMUNITY IN A MURINE GLIOMA MODEL**
Kim, L., Choi, J., Nitta, R., Pant, A., Schonfeld, E., Li, G., Jackson, C., Wang, X., Lim, M.
OXFORD UNIV PRESS INC.2024
- **UPDATE ON GBM AGILE: A GLOBAL, PHASE 2/3 ADAPTIVE PLATFORM TRIAL TO EVALUATE MULTIPLE REGIMENS IN NEWLY DIAGNOSED AND RECURRENT GLIOBLASTOMA**
Lassman, A., Alexander, B., Berry, D., Berry, N., Buxton, M., Colman, H., Gan, H., de Groot, J., de la Fuente, M., Drappatz, J., Ducray, F., Ellingson, B., Gordon, et al
OXFORD UNIV PRESS INC.2024
- **TRENDS IN LOW GRADE GLIOMA PROGNOSIS AND THE EVOLVING IMPACT OF GROSS TOTAL RESECTION ACROSS FIFTY YEARS: A MULTICOHORT ANALYSIS**
Jin, M., Young, J., Umbach, G., Ravi, K., Lim, M., Hervey-Jumper, S.
OXFORD UNIV PRESS INC.2024
- **Radiation immunodynamics in patients with glioblastoma receiving chemoradiation.** *Frontiers in immunology*
Sloan, L., Sen, R., Liu, C., Doucet, M., Blosser, L., Katulis, L., Kamson, D. O., Grossman, S., Holdhoff, M., Redmond, K. J., Quon, H., Lim, M., Eberhart, et al
2024; 15: 1438044
- **The CCR6-CCL20 axis promotes regulatory T cell glycolysis and immunosuppression in tumors.** *Cancer immunology research*
Pant, A., Jain, A., Chen, Y., Patel, K., Saleh, L., Tzeng, S., Nitta, R. T., Zhao, L., Wu, C. Y., Bederson, M., Wang, W. L., Bergsneider, B. H., Choi, et al
2024
- **Repeat percutaneous rhizotomy for trigeminal neuralgia is not associated with an increased risk of postoperative complications.** *Clinical neurology and neurosurgery*
Nair, S. K., Kalluri, A., Ejimogu, N. E., Reddy, S. C., Tantry, D., Wang, X., Carmichael, A., Abdulrahim, M., Xia, Y., Yedavalli, V., Jackson, C. M., Huang, J., Lim, et al
2024; 245: 108466

- **A history of stereotactic radiosurgery may predict failure of procedure following percutaneous glycerol rhizotomy for trigeminal neuralgia.** *Neurosurgical review*
Nair, S. K., Oh, H. J., Kalluri, A., Ejimogu, N. E., Al-Khars, H., Abdulrahim, M., Xia, Y., Yedavalli, V., Jackson, C. M., Huang, J., Lim, M., Bettgowda, C., Xu, et al
2024; 47 (1): 289
- **TUMOR INFLAMMATION-ASSOCIATED NEUROTOXICITY (TIAN): A TOXICITY SYNDROME IN PATIENTS TREATED WITH IMMUNOTHERAPY FOR CENTRAL NERVOUS SYSTEM TUMORS**
Mahdi, J., Dietrich, J., Straathof, K., Roddie, C., Scott, B. J., Davidson, T., Prolo, L., Batchelor, T. T., Campen, C. J., Davis, K. L., Gust, J., Lim, M., Majzner, et al
OXFORD UNIV PRESS INC.2024
- **Evaluation of VAL-083 in GBM AGILE, a phase 3 registration platform trial for newly diagnosed and recurrent glioblastoma.**
De Groot, J., Cloughesy, T., Berry, D. A., Buxton, M., Colman, H., Ellingson, B. M., Gordon, G. B., Lassman, A. B., Lim, M., Mellinghoff, I. K., Sulman, E. P., Weller, M., Wen, et al
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Glioma.** *Nature reviews. Disease primers*
Weller, M., Wen, P. Y., Chang, S. M., Dirven, L., Lim, M., Monje, M., Reifenberger, G.
2024; 10 (1): 33
- **External assessment of preoperative scores for predicting outcome after microvascular decompression for trigeminal neuralgia.** *Journal of neurosurgery*
Xie, M. E., Halbert-Elliott, K., Nair, S. K., Jun, J., Dong, B. C., Ran, K. R., Kilgore, C. B., Kalluri, A., Yedavalli, V. S., Jackson, C. M., Lim, M., Huang, J., Bettgowda, et al
2024: 1-7
- **CCR2 and CCR5 co-inhibition modulates immunosuppressive myeloid milieu in glioma and synergizes with anti-PD-1 therapy.** *Oncoimmunology*
Pant, A., Hwa-Lin Bergsneider, B., Srivastava, S., Kim, T., Jain, A., Bom, S., Shah, P., Kannapadi, N., Patel, K., Choi, J., Cho, K. B., Verma, R., Yu-Ju Wu, et al
2024; 13 (1): 2338965
- **Intra- and post-pandemic impact of the COVID-19 outbreak on Stanford Health Care.** *Academic pathology*
Phongpreecha, T., Berson, E., Xue, L., Shome, S., Saarunya, G., Fralick, J., Ruiz-Tagle, B. G., Foody, A., Chin, A. L., Lim, M., Arthofer, R., Albin, C., Montine, et al
2024; 11 (2): 100113
- **Preoperative Opioid Use and Postoperative Outcomes in Patients Undergoing Microvascular Decompression for Trigeminal Neuralgia.** *Neurosurgery*
Kalluri, A. L., Ejimogu, E., Kilgore, C., Nair, S. K., Ran, K. R., Abdulrahim, M., Xie, M. E., Halbert-Elliott, K., Yedavalli, V., Lim, M., Jackson, C. M., Huang, J., Bettgowda, et al
2024
- **Adult neuro-oncology trials in the United States over 5 decades: Analysis of trials completion rate to guide the path forward.** *Neuro-oncology advances*
Smith, E. J., Naik, A., Goel, M., Wen, P. Y., Lim, M., Chang, S. M., Germano, I. M.
2024; 6 (1): vdad169
- **Stanford University School of Medicine: Our Neurosurgical Heritage.** *Neurosurgery*
Veeravagu, A., Kim, L. H., Rao, V. L., Lim, M., Shuer, L. M., Harris, O. A., Steinberg, G. K.
2023
- **Neurovascular Compression in Patients With Trigeminal Neuralgia May Be Associated With Worse Outcomes After Primary Percutaneous Rhizotomy.** *Neurosurgery*
Nair, S. K., Al-Khars, H., Kalluri, A., Ran, K., Kilgore, C., Budihal, B. R., Abdulrahim, M., Yedavalli, V., Jackson, C. M., Huang, J., Lim, M., Bettgowda, C., Xu, et al
2023
- **Soluble PD-L1 reprograms blood monocytes to prevent cerebral edema and facilitate recovery after ischemic stroke.** *Brain, behavior, and immunity*
Kim, J. E., Lee, R. P., Yazigi, E., Atta, L., Feghali, J., Pant, A., Jain, A., Levitan, I., Kim, E., Patel, K., Kannapadi, N., Shah, P., Bibic, et al

2023

- **ADULT NEURO-ONCOLOGY TRIAL LANDSCAPE IN THE UNITED STATES OVER FIVE DECADES**
Smith, E., Naik, A., Goel, M., Wen, P., Lim, M., Chang, S., Germano, I.
OXFORD UNIV PRESS INC.2023
- **LONG TERM FOLLOW-UP OF A PROSPECTIVE SAFETY AND TOXICITY STUDY OF IMMUNE CHECKPOINT INHIBITOR THERAPY INITIATED 8 DAYS PRIOR TO RADIOSURGERY FOR MELANOMA BRAIN OR SPINE METASTASIS**
Kleinberg, L., Ye, X., Sharfman, W., Jackson, C., Redmond, K., Bettegowda, C., Szajna, K., Isenock, W., Wollett, J., Lipson, E., Lim, M.
OXFORD UNIV PRESS INC.2023
- **GBM AGILE PLATFORM TRIAL FOR NEWLY DIAGNOSED AND RECURRENT GBM: RESULTS OF FIRST EXPERIMENTAL ARM, REGORAFENIB**
Wen, P., Alexander, B., Berry, D., Buxton, M., Cavenee, W., Colman, H., de Groot, J., Ellingson, B., Gordon, G., Hyddmark, E., Khasraw, M., Lim, M., Mellinghoff, et al
OXFORD UNIV PRESS INC.2023
- **A RANDOMIZED WINDOW OF OPPORTUNITY TRIAL WITH DOSE ESCALATION TO EVALUATE FLUOXETINE AND TEMOZOLOMIDE IN GLIOMA**
Singh, K., Railton, C., Hotchkiss, K., Herndon, J., Peters, K., Friedman, H., Desjardins, A., Ashley, D., Johnson, M. O., Patel, A., Friedman, A., Lim, M., Fecci, et al
OXFORD UNIV PRESS INC.2023
- **MITOCHONDRIAL ATP BIOGENESIS REGULATED BY VDAC1 IN TMEM119+TUMOR-ASSOCIATED MICROGLIA AND MACROPHAGES MEDIATES HIGH-GRADE GLIOMA GROWTH**
Wu, C., Chen, Y., Lin, Y., Wei, K., Chang, K., Feng, L., Wu, A., Chen, K., Ren, A., Nitta, R., Wu, J., Pant, A., Cho, et al
OXFORD UNIV PRESS INC.2023
- **The influence of prior percutaneous rhizotomy on outcomes following microvascular decompression for trigeminal neuralgia.** *Journal of neurosurgery*
Nair, S. K., Xie, M. E., Kalluri, A., Ran, K., Kilgore, C., Halbert-Elliott, K., Huang, J., Lim, M., Bettegowda, C., Xu, R.
2023: 1-5
- **Proteomic Analysis to Identify Prospective Biomarkers of Treatment Outcome After Microvascular Decompression for Trigeminal Neuralgia: A Preliminary Study.** *The journal of pain*
Doshi, T. L., Dorsey, S. G., Huang, W., Kane, M. A., Lim, M.
2023
- **Frailty predicts worse pain outcomes for older TN patients treated with microvascular decompression.** *World neurosurgery*
Kilgore, C. B., Kalluri, A. L., Nair, S. K., Halbert-Elliott, K. M., Ejimogu, E., Dong, B., Chakravarti, S., Abdulrahim, M. W., Jackson, C. M., Lim, M., Huang, J., Bettegowda, C., Xu, et al
2023
- **Overcoming EGFR inhibitor resistance in Glioblastoma by targeting co-amplified genes.** *Proceedings of the National Academy of Sciences of the United States of America*
Pant, A., Lim, M.
2023; 120 (38): e2312277120
- **The role of multiple sclerosis subtype in microvascular decompression outcomes for patients with trigeminal neuralgia.** *Clinical neurology and neurosurgery*
Kalluri, A. L., So, R. J., Nair, S. K., Materi, J., Wang, D., Behera, N., Kornberg, M. D., Huang, J., Lim, M., Bettegowda, C., Xu, R.
2023; 233: 107967
- **Stereotactic Radiosurgery for Medically Refractory Trigeminal Neuralgia Secondary to Stroke: A Systematic Review and Clinical Case Presentation.** *World neurosurgery*
Zamarud, A., Park, D. J., Ung, T. H., McCleary, T. L., Yoo, K. H., Soltys, S. G., Lim, M., Chang, S. D., Meola, A.
2023
- **Optimizing the synergy between stereotactic radiosurgery and immunotherapy for brain metastases.** *Frontiers in oncology*
Yoo, K. H., Park, D. J., Choi, J. H., Marianayagam, N. J., Lim, M., Meola, A., Chang, S. D.
2023; 13: 1223599

- **Seq-ing the SINEs of central nervous system tumors in cerebrospinal fluid.** *Cell reports. Medicine*
Douville, C., Curtis, S., Summers, M., Azad, T. D., Rincon-Torroella, J., Wang, Y., Mattox, A., Avigdor, B., Dudley, J., Materi, J., Raj, D., Nair, S., Bhanja, et al
2023: 101148
- **Correcting the drug development paradigm for glioblastoma requires serial tissue sampling.** *Nature medicine*
Singh, K., Hotchkiss, K. M., Parney, I. F., De Groot, J., Sahebjam, S., Sanai, N., Platten, M., Galanis, E., Lim, M., Wen, P. Y., Minniti, G., Colman, H., Cloughesy, et al
2023
- **Management outcomes of peripontine arteriovenous malformation patients presenting with trigeminal neuralgia.** *Journal of neurosurgery*
Yang, W., Sattari, S. A., Feghali, J., Hung, A., Chen, Y., Xu, R., Bettgowda, C., Lim, M., Huang, J.
2023: 1-7
- **A Case Series of Stereotactic Radiosurgery First for Trigeminal Neuralgia: A History of Stereotactic Radiosurgery Does Not Complicate Microvascular Decompression.** *Operative neurosurgery (Hagerstown, Md.)*
Nair, S. K., Xie, M. E., Ran, K., Kalluri, A., Kilgore, C., Halbert-Elliott, K., Huang, J., Lim, M., Bettgowda, C., Xu, R.
2023
- **Use of tubular retractors to access deep brain lesions: A case series.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
Rakovec, M., Camp, S., Day, D., Chakravarti, S., Parker, M., Porras, J. L., Jackson, C. M., Huang, J., Bettgowda, C., Lim, M., Mukherjee, D.
2023; 114: 64-69
- **Translational Models in Glioma Immunotherapy Research.** *Current oncology (Toronto, Ont.)*
Ren, A. L., Wu, J. Y., Lee, S. Y., Lim, M.
2023; 30 (6): 5704-5718
- **TUMOR INFLAMMATION-ASSOCIATED NEUROTOXICITY (TIAN): A TOXICITY SYNDROME IN PATIENTS TREATED WITH IMMUNOTHERAPY FOR CENTRAL NERVOUS SYSTEM TUMORS**
Mahdi, J., Dietrich, J., Straathof, K., Roddie, C., Scott, B., Davidson, T., Prolo, L., Batchelor, T., Campen, C., Davis, K., Gust, J., Lim, M., Majzner, et al
OXFORD UNIV PRESS INC.2023
- **Advancing combination therapy for recurrent glioblastoma.** *Nature medicine*
Wu, A., Lim, M.
2023
- **Sequential onset of bilateral trigeminal neuralgia: clinical presentation and outcomes.** *Clinical neurology and neurosurgery*
Xu, R., So, R. J., Lee, K. K., Kalluri, A. L., Materi, J., Nair, S. K., Huang, J., Lim, M., Bettgowda, C.
2023; 229: 107745
- **Systematic elucidation and pharmacological targeting of tumor-infiltrating regulatory T cell master regulators.** *Cancer cell*
Obradovic, A., Ager, C., Turunen, M., Nirschl, T., Khosravi-Maharlooei, M., Iuga, A., Jackson, C. M., Yegnasubramanian, S., Tomassoni, L., Fernandez, E. C., McCann, P., Rogava, M., DeMarzo, et al
2023
- **Tumor inflammation-associated neurotoxicity.** *Nature medicine*
Mahdi, J., Dietrich, J., Straathof, K., Roddie, C., Scott, B. J., Davidson, T. B., Prolo, L. M., Batchelor, T. T., Campen, C. J., Davis, K. L., Gust, J., Lim, M., Majzner, et al
2023
- **Clinical consensus guideline on the management of pheochromocytoma and paraganglioma in patients harbouring germline SDHD pathogenic variants.** *The lancet. Diabetes & endocrinology*
Taieb, D., Wanna, G. B., Ahmad, M., Lussey-Lepoutre, C., Perrier, N. D., Nölting, S., Amar, L., Timmers, H. J., Schwam, Z. G., Estrera, A. L., Lim, M., Pollom, E. L., Vitzthum, et al
2023
- **Outcomes after microvascular decompression for sole arterial versus venous compression in trigeminal neuralgia.** *World neurosurgery*
Nair, S. K., Xie, M. E., Ran, K., Kalluri, A., Kilgore, C., Huang, J., Lim, M., Bettgowda, C., Xu, R.
2023

- **Sex-specific pain outcomes following microvascular decompression for trigeminal neuralgia.** *World neurosurgery*
Kilgore, C. B., So, R. J., Storm, K., Nair, S. K., Ran, K. R., Kalluri, A. L., Lim, M., Huang, J., Bettegowda, C., Xu, R.
2023
- **CAR-T Therapy in GBM: Current Challenges and Avenues for Improvement.** *Cancers*
Pant, A., Lim, M.
2023; 15 (4)
- **PP2Ac/STRN4 negatively regulates STING-Type I interferon signaling in tumor associated macrophages.** *The Journal of clinical investigation*
Ho, W. S., Mondal, I., Xu, B., Das, O., Sun, R. C., Chiou, P., Cai, X., Tahmasebinia, F., Wu, C. Y., Wu, Z., Matsui, W., Lim, M., Meng, et al
2023
- **A racial analysis of pain outcomes following microvascular decompression for trigeminal neuralgia.** *Journal of neurosurgery*
So, R. J., Kalluri, A. L., Storm, K., Nair, S. K., Budihal, B. R., Huang, J., Lim, M., Bettegowda, C., Xu, R.
2023: 1-7
- **The Tumor Immune Microenvironment in Primary CNS Neoplasms: A Review of Current Knowledge and Therapeutic Approaches.** *International journal of molecular sciences*
Kalluri, A. L., Shah, P. P., Lim, M.
2023; 24 (3)
- **Immunotherapy as a New Therapeutic Approach for Brain and Spinal Cord Tumors.** *Advances in experimental medicine and biology*
Medikonda, R., Pant, A., Lim, M.
2023; 1394: 73-84
- **Response** *JOURNAL OF NEUROSURGERY*
Xu, R., Nair, S. K., Bettegowda, C., Lim, M.
2023; 138 (1): 295
- **The pathophysiology of trigeminal neuralgia: a molecular review.** *Journal of neurosurgery*
Dong, B., Xu, R., Lim, M.
2023; 139 (5): 1471-1479
- **Multiple Vessel Compression of the Trigeminal Nerve Is Associated With Worse Outcomes in Trigeminal Neuralgia After Microvascular Decompression.** *Neurosurgery*
So, R. J., Kalluri, A. L., Zhu, S., Materi, J., Nair, S. K., Lim, M., Huang, J., Bettegowda, C., Xu, R.
2022
- **Advances in co-opting anti-depressant drugs in glioma therapy.** *Cell reports. Medicine*
Pant, A., Lim, M.
2022; 3 (12): 100837
- **A Case Series of Trigeminal Neuralgia With Pure Venous Compression: Postoperative Outcomes Associated With Intraoperative Venous Transposition Versus Coagulation.** *Operative neurosurgery (Hagerstown, Md.)*
So, R. J., Kalluri, A. L., Materi, J., Nair, S. K., Lim, M., Huang, J., Bettegowda, C., Xu, R.
2022
- **Factors Predicting Cerebrospinal Fluid Leaks in Microvascular Decompressions: A Case Series of 1011 Patients.** *Operative neurosurgery (Hagerstown, Md.)*
Xu, R., So, R. J., Materi, J., Nair, S. K., Alomari, S. O., Huang, J., Lim, M., Bettegowda, C.
2022
- **Updates in intraoperative strategies for enhancing intra-axial brain tumor control.** *Neuro-oncology*
Wu, A., Wu, J. Y., Lim, M.
2022; 24 (Supplement_6): S33-S41
- **PROTEASOME REARRANGED PEPTIDES ARE A NOVEL SOURCE OF ANTIGENS FOR THE PEPTIDE VACCINE IMMUNOTHERAPY OF GLIOBLASTOMAS**
Fidanza, M., Gupta, P., Shanker, V., Wong, N., Skirboll, S., Lim, M., Wong, A.
OXFORD UNIV PRESS INC.2022: 138

- **UPDATE ON GBM AGILE: A GLOBAL, PHASE 2/3 ADAPTIVE PLATFORM TRIAL TO EVALUATE MULTIPLE REGIMENS IN NEWLY DIAGNOSED AND RECURRENT GLIOBLASTOMA.**
Buxton, M., Alexander, B., Berry, D., Cavenee, W., Colman, H., de Groot, J., Ellingson, B., Gordon, G., Khasraw, M., Lassman, A., Lee, E., Li, W., Lim, et al
OXFORD UNIV PRESS INC.2022: 80
- **SINGLE-STAGE RECONSTRUCTION FOLLOWING ONCOLOGIC RESECTION OF BRAIN TUMORS WITH SKULL INVASION**
Ben-Shalom, N., Anthony, A., Micah, B., Harnof, S., Huang, J., Lim, M., Brem, H., Gordon, C.
OXFORD UNIV PRESS INC.2022: 260
- **Can tumor treating fields induce DNA damage and reduce cell motility in medulloblastoma cell lines?** *Journal of neurosurgery. Pediatrics*
Nitta, R. T., Luo, E. J., Lim, M., Li, G.
2022: 1-12
- **The role of preoperative MRI imaging in assessing neurovascular compression prior to microvascular decompression in trigeminal neuralgia.** *World neurosurgery*
Xu, R., Nair, S. K., Raj, D., Materi, J., So, R. J., Gujar, S. K., Huang, J., Blitz, A. M., Lim, M., Sair, H. I., Bettegowda, C.
2022
- **A potential role for steroids in acute pain management in patients with trigeminal neuralgia.** *World neurosurgery*
Xu, R., Nair, S. K., Shah, P. P., Kannapadi, N., Materi, J., Alomari, S., Kim, T., Kalluri, A., Xia, Y., So, R. J., Lim, M., Bettegowda, C.
2022
- **Radiomics analysis of amide proton transfer-weighted and structural MR images for treatment response assessment in malignant gliomas.** *NMR in biomedicine*
Jiang, S., Guo, P., Heo, H. Y., Zhang, Y., Wu, J., Jin, Y., Lattera, J., Eberhart, C. G., Lim, M., Blakeley, J. O.
2022: e4824
- **Immunometabolism, a new therapeutic development for immunotherapies of high-grade gliomas: a narrative review.** *Chinese clinical oncology*
Wu, J. Y., Ren, A. L., Lim, M.
2022; 11 (4): 26
- **Learning-based analysis of amide proton transfer-weighted MRI to identify true progression in glioma patients.** *NeuroImage. Clinical*
Guo, P., Unberath, M., Heo, H., Eberhart, C. G., Lim, M., Blakeley, J. O., Jiang, S.
2022; 35: 103121
- **Predictors and Impact of Postoperative 30-Day Readmission in Glioblastoma.** *Neurosurgery*
Botros, D., Khalafallah, A. M., Huq, S., Dux, H., Oliveira, L. A., Pellegrino, R., Jackson, C., Gallia, G. L., Bettegowda, C., Lim, M., Weingart, J., Brem, H., Mukherjee, et al
2022
- **Safety and cost savings associated with reduced inpatient hospitalization for microvascular decompression.** *World neurosurgery*
Xu, R., Nair, S. K., Materi, J., Raj, D., Park, G., Medikonda, R., Alomari, S., Kim, T., Xia, Y., Huang, J., Lim, M., Bettegowda, C.
2022
- **Diversity within the Neurosurgical Oncology Workforce in the United States: A Cross-Sectional Study with Proposed Strategies to Pave the Path Forward.** *Neuro-oncology*
Asfaw, Z. K., Rodriguez, A., Hodges, T. R., Mazumdar, M., Zhan, S., Lim, M., Germano, I. M.
2022
- **GBM AGILE: A global, phase 2/3 adaptive platform trial to evaluate multiple regimens in newly diagnosed and recurrent glioblastoma**
Cloughesy, T., Alexander, B., Berry, D. A., Colman, H., De Groot, J., Ellingson, B. M., Gordon, G. B., Khasraw, M., Lassman, A. B., Lee, E., Lim, M., Mellinghoff, I. K., Nelli, et al
LIPPINCOTT WILLIAMS & WILKINS.2022
- **The future of cancer immunotherapy for brain tumors: a collaborative workshop.** *Journal of translational medicine*
Brown, C. E., Bucktrout, S., Butterfield, L. H., Futer, O., Galanis, E., Hormigo, A., Lim, M., Okada, H., Prins, R., Marr, S. S., Tanner, K.
2022; 20 (1): 236
- **Internal neurolysis versus intraoperative glycerin rhizotomy for trigeminal neuralgia.** *Journal of neurosurgery*

- Xu, R., Materi, J., Raj, D., Alomari, S., Xia, Y., Nair, S. K., Shah, P. P., Kannapadi, N., Kim, T., Huang, J., Bettegowda, C., Lim, M.
2022: 1-6
- **Phase 3 Trial of Chemoradiotherapy With Temozolomide Plus Nivolumab or Placebo for Newly Diagnosed Glioblastoma With Methylated MGMT Promoter.** *Neuro-oncology*
Lim, M., Weller, M., Idbaih, A., Steinbach, J., Finocchiaro, G., Raval, R. R., Ansstas, G., Baehring, J., Taylor, J. W., Honnorat, J., Petrecca, K., De Vos, F., Wick, et al
2022
 - **Radiotherapy Combined With Nivolumab or Temozolomide for Newly Diagnosed Glioblastoma With Unmethylated MGMT Promoter: An International Randomized Phase 3 Trial.** *Neuro-oncology*
Omuro, A., Brandes, A. A., Carpentier, A. F., Idbaih, A., Reardon, D. A., Cloughesy, T., Sumrall, A., Baehring, J., van den Bent, M., Bahr, O., Lombardi, G., Mulholland, P., Tabatabai, et al
2022
 - **Circulating Immune Cell and Outcome Analysis from the Phase 2 Study of PD-L1 Blockade with Durvalumab for Newly Diagnosed and Recurrent Glioblastoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Nayak, L., Standifer, N., Dietrich, J., Clarke, J. L., Dunn, G. P., Lim, M., Cloughesy, T., Gan, H. K., Flagg, E., George, E., Gaffey, S., Hayden, J., Holcroft, et al
2022
 - **The Molecular Basis and Pathophysiology of Trigeminal Neuralgia.** *International journal of molecular sciences*
Chen, Q., Yi, D. I., Perez, J. N., Liu, M., Chang, S. D., Barad, M. J., Lim, M., Qian, X.
2022; 23 (7)
 - **Case Series in the Utility of Invasive Blood Pressure Monitoring in Microvascular Decompression.** *Operative neurosurgery (Hagerstown, Md.)*
Xu, R., Nair, S. K., Materi, J., Raj, D., Medikonda, R., Shah, P. P., Kannapadi, N. V., Wang, A., Mintz, D., Gottschalk, A., Antonik, L. J., Huang, J., Bettegowda, et al
2022
 - **Cranioplasty With Customized Craniofacial Implants and Intraoperative Resizing for Single-Stage Reconstruction Following Oncologic Resection of Skull Neoplasms.** *The Journal of craniofacial surgery*
Ben-Shalom, N., Asemota, A. O., Belzberg, M., Harnof, S., Huang, J., Lim, M., Brem, H., Gordon, C.
2022
 - **The roles of thermal and mechanical stress in focused ultrasound-mediated immunomodulation and immunotherapy for central nervous system tumors.** *Journal of neuro-oncology*
Kim, C., Lim, M., Woodworth, G. F., Arvanitis, C. D.
2022
 - **Advances in Immunotherapies for Gliomas.** *Current neurology and neuroscience reports*
Zhang, M., Choi, J., Lim, M.
1800
 - **Is There a Role for Immunotherapy in Central Nervous System Cancers?** *Hematology/oncology clinics of North America*
Flores, C., Dunn, G., Fecci, P., Lim, M., Mitchell, D., Reardon, D. A.
2022; 36 (1): 237-252
 - **Introduction. Immunology of neurosurgical diseases.** *Neurosurgical focus*
Quinones-Hinojosa, A., Rahman, M., Lim, M., Suarez-Meade, P., Marenco-Hillebrand, L.
1800; 52 (2): E1
 - **Quantitative Bioluminescence Tomography for In Vivo Volumetric-Guided Radiotherapy.** *Methods in molecular biology (Clifton, N.J.)*
Deng, Z., Xu, X., Dehghani, H., Sforza, D. M., Iordachita, I., Lim, M., Wong, J. W., Wang, K. K.
2022; 2393: 701-731
 - **The Role of Myeloid Cells in GBM Immunosuppression.** *Frontiers in immunology*
Lin, Y., Wu, C. Y., Wu, J. Y., Lim, M.
2022; 13: 887781
 - **Calcium-Related Gene Signatures May Predict Prognosis and Level of Immunosuppression in Gliomas.** *Frontiers in oncology*

- Liu, P., Li, Y., Zhang, Y., Choi, J., Zhang, J., Shang, G., Li, B., Lin, Y., Saleh, L., Zhang, L., Yi, L., Yu, S., Lim, et al
2022; 12: 708272
- **Nivolumab plus radiotherapy with or without temozolomide in newly diagnosed glioblastoma: Results from exploratory phase I cohorts of CheckMate 143.** *Neuro-oncology advances*
Omuro, A., Reardon, D. A., Sampson, J. H., Baehring, J., Sahebjam, S., Cloughesy, T. F., Chalamandaris, A., Potter, V., Butowski, N., Lim, M.
2022; 4 (1): vdac025
 - **CAR T Cell Therapy in Primary Brain Tumors: Current Investigations and the Future.** *Frontiers in immunology*
Lin, Y., Mashouf, L. A., Lim, M.
2022; 13: 817296
 - **Impact of international research fellows in neurosurgery: results from a single academic center** *JOURNAL OF NEUROSURGERY*
Yang, W., Rincon-Torroella, J., Feghali, J., Khalafallah, A. M., Ishida, W., Perdomo-Pantoja, A., Quinones-Hinojosa, A., Lim, M., Gallia, G. L., Riggins, G. J., Anderson, W. S., Lo, S., Rigamonti, et al
2022; 136 (1): 295-305
 - **Quality of Life and Role of Palliative and Supportive Care for Patients With Brain Metastases and Caregivers: A Review** *Frontiers in Neurology*
Wu, A., Ruiz Colon, G. D., Lim, M.
2022; 13
 - **Clinical features and surgical outcomes of intracranial and spinal cord subependymomas.** *Journal of neurosurgery*
Rincon-Torroella, J., Rakovec, M., Khalafallah, A. M., Liu, A., Bettegowda, A., Kut, C., Rodriguez, F. J., Weingart, J., Luciano, M., Olivi, A., Jallo, G. I., Brem, H., Mukherjee, et al
2022: 1-12
 - **ATRX loss promotes immunosuppressive mechanisms in IDH1 mutant glioma.** *Neuro-oncology*
Hu, C., Wang, K., Damon, C., Fu, Y., Ma, T., Kratz, L., Lal, B., Ying, M., Xia, S., Cahill, D. P., Jackson, C. M., Lim, M., Lattera, et al
1800
 - **A RANDOMIZED PHASE 3 STUDY OF NIVOLUMAB OR PLACEBO COMBINED WITH RADIOTHERAPY PLUS TEMOZOLOMIDE IN PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA WITH METHYLATED MGMT PROMOTER: CHECKMATE 548**
Weller, M., Lim, M., Idbaih, A., Steinbach, J., Finocchiaro, G., Raval, R., Ashby, L., Ansstas, G., Baehring, J., Taylor, J., Honnorat, J., Petrecca, K., De Vos, et al
OXFORD UNIV PRESS INC.2021: 55-56
 - **Checkpoint blockade in recurrent meningiomas: Lessons for future management.** *Neuro-oncology*
Pant, A., Lim, M.
2021
 - **Designing Clinical Trials for Combination Immunotherapy: A Framework for Glioblastoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Singh, K., Batich, K. A., Wen, P. Y., Tan, A. C., Bagley, S. J., Lim, M., Platten, M., Colman, H., Ashley, D. M., Chang, S. M., Rahman, R., Galanis, E., Mansouri, et al
2021
 - **The Challenges and Future of Immunotherapy for Gliomas.** *Cancer journal (Sudbury, Mass.)*
Wu, A., Lim, M.
2021; 27 (5): 371-378
 - **Quantitative Bioluminescence Tomography-guided Conformal Irradiation for Pre-clinical Radiation Research.** *International journal of radiation oncology, biology, physics*
Xu, X., Deng, Z., Dehghani, H., Iordachita, I., Lim, M., Wong, J. W., Wang, K. K.
2021
 - **Synergy between glutamate modulation and anti-programmed cell death protein 1 immunotherapy for glioblastoma.** *Journal of neurosurgery*
Medikonda, R., Choi, J., Pant, A., Saleh, L., Routkevitch, D., Tong, L., Belcaid, Z., Kim, Y. H., Jackson, C. M., Jackson, C., Mathios, D., Xia, Y., Shah, et al
2021: 1-10

- **Emerging Technologies for Non-invasive Monitoring of Treatment Response to Immunotherapy for Brain Tumors.** *Neuromolecular medicine*
Mathios, D., Srivastava, S., Kim, T., Bettegowda, C., Lim, M.
2021
- **Sustained localized delivery of immunotherapy to lymph nodes reverses immunosuppression and increases long-term survival in murine glioblastoma.** *Oncoimmunology*
Choi, J., Pant, A., Medikonda, R., Kim, Y. H., Routkevitch, D., Saleh, L., Tong, L., Chan, H. Y., Nedrow, J., Jackson, C., Jackson, C., Lim, M.
2021; 10 (1): 1940673
- **Systematic review of combinations of targeted or immunotherapy in advanced solid tumors.** *Journal for immunotherapy of cancer*
Tan, A. C., Bagley, S. J., Wen, P. Y., Lim, M., Platten, M., Colman, H., Ashley, D. M., Wick, W., Chang, S. M., Galanis, E., Mansouri, A., Khagi, S., Mehta, et al
2021; 9 (7)
- **Enhancing proteasomal processing improves survival for a peptide vaccine used to treat glioblastoma.** *Science translational medicine*
Fidanza, M., Gupta, P., Sayana, A., Shanker, V., Pahlke, S., Vu, B., Krantz, F., Azameera, A., Wong, N., Anne, N., Xia, Y., Rong, J., Anne, et al
2021; 13 (598)
- **Bone Cement Internal Auditory Canal Reconstruction to Reduce CSF Leak After Vestibular Schwannoma Retrosigmoid Approach.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
Zhang, L., Galaiya, D., Jackson, C. M., Tamargo, R. J., Lim, M., Carey, J., Creighton, F. X.
2021
- **GBM AGILE: A global, phase 2/3 adaptive platform trial to evaluate multiple regimens in newly diagnosed and recurrent glioblastoma.**
Wen, P. Y., Mellinghoff, I. K., Buxton, M., Cavenee, W. K., Colman, H., De Groot, J., Ellingson, B. M., Gordon, G. B., Khasraw, M., Lassman, A. B., Lim, M., Perry, J. R., Tanner, et al
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Immunotherapy for Chordoma and Chondrosarcoma: Current Evidence.** *Cancers*
Traylor, J. I., Pernik, M. N., Plitt, A. R., Lim, M., Garzon-Muvdi, T.
2021; 13 (10)
- **Combination immunotherapy strategies for glioblastoma.** *Journal of neuro-oncology*
Chan, H. Y., Choi, J., Jackson, C., Lim, M.
2021; 151 (3): 375–91
- **Development of new brain metastases in triple negative breast cancer.** *Journal of neuro-oncology*
Medikonda, R., Srivastava, S., Kim, T., Xia, Y., Kim, J., Jackson, C., Weingart, J., Mukherjee, D., Bettegowda, C., Gallia, G., Brem, H., Redmond, K., Stearns, et al
2021
- **In Reply: Absence of Ischemic Injury After Sacrificing the Superior Petrosal Vein During Microvascular Decompression.** *Operative neurosurgery (Hagerstown, Md.)*
Xia, Y., Lim, M.
2021
- **Improved survival and disease control following pembrolizumab-induced immune-related adverse events in high PD-L1 expressing non-small cell lung cancer with brain metastases.** *Journal of neuro-oncology*
Zhang, M. n., Rodrigues, A. J., Pollom, E. L., Gibbs, I. C., Soltys, S. G., Hancock, S. L., Neal, J. W., Padda, S. K., Ramchandran, K. J., Wakelee, H. A., Chang, S. D., Lim, M. n., Hayden Gephart, et al
2021
- **In Vivo Evaluation of Near-Infrared Fluorescent Probe for TIM3 Targeting in Mouse Glioma.** *Molecular imaging and biology*
Zhang, M., Zhou, Q., Huang, C., Chan, C. T., Wu, W., Li, G., Lim, M., Gambhir, S. S., Daldrup-Link, H. E.
2021
- **The safety and efficacy of dexamethasone in the perioperative management of glioma patients.** *Journal of neurosurgery*
Medikonda, R., Patel, K., Jackson, C., Saleh, L., Srivastava, S., Feghali, J., Mohan, A., Pant, A., Jackson, C. M., Weingart, J., Mukherjee, D., Bettegowda, C., Gallia, et al
2021: 1-8

- **Combination checkpoint therapy with anti-PD-1 and anti-BTLA results in a synergistic therapeutic effect against murine glioblastoma** *ONCOIMMUNOLOGY*
Choi, J., Medikonda, R., Saleh, L., Kim, T., Pant, A., Srivastava, S., Kim, Y., Jackson, C., Tong, L., Routkevitch, D., Jackson, C., Mathios, D., Zhao, et al
2021; 10 (1): 1956142
- **Roles of Neutrophils in Glioma and Brain Metastases.** *Frontiers in immunology*
Lin, Y., Wei, K., Chen, P., Lim, M., Hwang, T.
2021; 12: 701383
- **A Crowdsourced Consensus on Supratotal Resection Versus Gross Total Resection for Anatomically Distinct Primary Glioblastoma.** *Neurosurgery*
Khalafallah, A. M., Rakovec, M., Bettgowda, C., Jackson, C. M., Gallia, G. L., Weingart, J. D., Lim, M., Esquenazi, Y., Zacharia, B. E., Goldschmidt, E., Ziu, M., Ivan, M. E., Venteicher, et al
2021
- **Sustained localized delivery of immunotherapy to lymph nodes reverses immunosuppression and increases long-term survival in murine glioblastoma** *ONCOIMMUNOLOGY*
Choi, J., Pant, A., Medikonda, R., Kim, Y., Routkevitch, D., Saleh, L., Tong, L., Chan, H., Nedrow, J., Jackson, C., Jackson, C., Lim, M.
2021; 10 (1)
- **Mutation status and postresection survival of patients with non-small cell lung cancer brain metastasis: implications of biomarker-driven therapy.** *Journal of neurosurgery*
Shah, P. P., Franke, J. L., Medikonda, R., Jackson, C. M., Srivastava, S., Choi, J., Forde, P. M., Brahmer, J. R., Ettinger, D. S., Feliciano, J. L., Levy, B. P., Marrone, K. A., Naidoo, et al
2021: 1-11
- **The state of neuro-oncology during the COVID-19 pandemic: a worldwide assessment.** *Neuro-oncology advances*
Mrugala, M. M., Ostrom, Q. T., Pressley, S. M., Taylor, J. W., Thomas, A. A., Wefel, J. S., Coven, S. L., Acquaye, A. A., Haynes, C., Agnihotri, S., Lim, M., Peters, K. B., Sulman, et al
2021; 3 (1): vdab035
- **Reprogramming transcription factors Oct4 and Sox2 induces a BRD-dependent immunosuppressive transcriptome in GBM-propagating cells.** *Cancer research*
Lattera, J. n., Ma, T. n., Hu, C. n., Lal, B. n., Zhou, W. n., Ma, Y. n., Ying, M. n., Prinos, P. n., Quiñones-Hinojosa, A. n., Lim, M. n., Li, Y. n.
2021
- **Role of surgery for glioblastoma: response to letters from Dr. Gerritsen and his colleagues and Dr. Vargas Lopez.** *Neuro-oncology*
Wen, P. Y., Weller, M. n., Chiocca, E. A., Lim, M. n., Tonn, J. C., Zadeh, G. n., Aldape, K. n., van den Bent, M. n.
2021
- **Unique challenges for glioblastoma immunotherapy - Discussions across neuro-oncology and non-neuro-oncology experts in cancer immunology.** *Neuro-oncology*
Chuntova, P., Chow, F., Watchmaker, P., Galvez, M., Heimberger, A. B., Newell, E. W., Diaz, A., DePinho, R. A., Li, M. O., Wherry, E. J., Mitchell, D., Terabe, M., Wainwright, et al
2020
- **Alternative Checkpoints as Targets for Immunotherapy.** *Current oncology reports*
Pant, A., Medikonda, R., Lim, M.
2020; 22 (12): 126
- **Defining best practices for tissue procurement in immuno-oncology clinical trials: consensus statement from the Society for Immunotherapy of Cancer Surgery Committee.** *Journal for immunotherapy of cancer*
Gastman, B., Agarwal, P. K., Berger, A., Boland, G., Broderick, S., Butterfield, L. H., Byrd, D., Fecci, P. E., Ferris, R. L., Fong, Y., Goff, S. L., Grabowski, M. M., Ito, et al
2020; 8 (2)
- **THE SAFETY AND EFFICACY OF DEXAMETHASONE IN THE MANAGEMENT OF GLIOMA PATIENTS**
Medikonda, R., Patel, K., Saleh, L., Srivastava, S., Jackson, C., Mohan, A., Weingart, J., Bettgowda, C., Gallia, G., Brem, H., Lim, M.
OXFORD UNIV PRESS INC.2020: 136

- **EFFICACY OF ANTICONVULSANT THERAPY IN GLIOMA PATIENTS**
Medikonda, R., Patel, K., Saleh, L., Srivastava, S., Jackson, C., Mohan, A., Shah, P., Weingart, J., Bettegowda, C., Gallia, G., Brem, H., Lim, M.
OXFORD UNIV PRESS INC.2020: 134
- **MANAGEMENT OF BRAIN METASTASIS IN TRIPLE NEGATIVE BREAST CANCER**
Medikonda, R., Srivastava, S., Kim, T., Xia, Y., Patel, M., Jackson, C., Theodros, D., Kim, J., Kleinberg, L., Redmond, K., Weingart, J., Mukherjee, D., Bettegowda, et al
OXFORD UNIV PRESS INC.2020: 130
- **GBM AGILE: A GLOBAL, PHASE 2/3 ADAPTIVE PLATFORM TRIAL TO EVALUATE MULTIPLE REGIMENS IN NEWLY DIAGNOSED AND RECURRENT GLIOBLASTOMA**
Buxton, M., Alexander, B., Berry, D., Cavenee, W., Colman, H., de Groot, J., Ellingson, B., Gordon, G., Khasraw, M., Lassman, A., Lee, W., Lim, M., Mellinghoff, et al
OXFORD UNIV PRESS INC.2020: 195–96
- **A CROWDSOURCED CONSENSUS ON SUPRATOTAL RESECTION VERSUS GROSS TOTAL RESECTION FOR ANATOMICALLY DISTINCT PRIMARY GLIOBLASTOMA**
Mukherjee, D., Rakovec, M., Bettegowda, C., Jackson, C., Gallia, G., Lim, M., Weingart, J., Esquenazi, Y., Zacharia, B., Goldschmidt, E., Ziu, M., Ivan, M., Venteicher, et al
OXFORD UNIV PRESS INC.2020: 208
- **SINGLE CELL RNA-SEQUENCING IDENTIFIES NOVEL BONE MARROW DERIVED MYELOID CELLS IN GLIOBLASTOMA ASSOCIATED WITH TUMOR AGGRESSION**
Jackson, C., Cherry, C., Bom, S., Zhang, H., Choi, J., Yegnasubramanian, V., Lim, M., Elisseeff, J., Pardoll, D.
OXFORD UNIV PRESS INC.2020: 110
- **EFFICACY OF CXCR6 BLOCKADE AS A POTENTIATOR OF ANTI-PD-1 THERAPY FOR THE TREATMENT OF GLIOBLASTOMA**
Pant, A., Saleh, L., Patel, K., Medikonda, R., Lim, M.
OXFORD UNIV PRESS INC.2020: 107
- **THE STATE OF NEURO-ONCOLOGY DURING THE COVID-19 PANDEMIC: A WORLDWIDE ASSESSMENT**
Mrugala, M., Ostrom, Q., Pressley, S., Thomas, A., Wefel, J. S., Coven, S., Acquaye, A., Haynes, C., Agnihotri, S., Lim, M., Peters, K., Butowski, N., Hervey-Jumper, et al
OXFORD UNIV PRESS INC.2020: 27
- **Scalp Invasion by Atypical or Anaplastic Meningioma Is a Risk Factor for Development of Systemic Metastasis** *WORLD NEUROSURGERY*
Garzon-Muvdi, T., Maxwell, R., Luksik, A., Kessler, R., Weingart, J., Olivi, A., Bettegowda, C., Tamargo, R., Brem, H., Lim, M.
2020; 142: E133–E139
- **Cottonoid Sliders: A Simple and Cost-Effective Tool for Retractorless Intracranial Surgery.** *Operative neurosurgery (Hagerstown, Md.)*
Shao, J., Borghei-Razavi, H., Kshetry, V. R., Lim, M., Recinos, P. F.
2020; 19 (4): E428–E431
- **A Dose-Response Model of Local Tumor Control Probability After Stereotactic Radiosurgery for Brain Metastases Resection Cavities.** *Advances in radiation oncology*
Gui, C., Grimm, J., Kleinberg, L. R., Zaki, P., Spoletti, N., Mukherjee, D., Bettegowda, C., Lim, M., Redmond, K. J.
2020; 5 (5): 840–49
- **CLEC5A expressed on myeloid cells as a M2 biomarker relates to immunosuppression and decreased survival in patients with glioma** *CANCER GENE THERAPY*
Tong, L., Li, J., Choi, J., Pant, A., Xia, Y., Jackson, C., Liu, P., Yi, L., Boussouf, E., Lim, M., Yang, X.
2020; 27 (9): 669–79
- **Transcriptional regulatory networks of tumor-associated macrophages that drive malignancy in mesenchymal glioblastoma** *GENOME BIOLOGY*
Sa, J. K., Chang, N., Lee, H., Cho, H., Ceccarelli, M., Cerulo, L., Yin, J., Kim, S., Caruso, F. P., Lee, M., Kim, D., Oh, Y., Lee, et al
2020; 21 (1): 216
- **Characterizing long non-coding RNA expression of tumor-infiltrating lymphocytes across solid cancers**
Dinalankara, W., Imada, E., Jackson, C. M., Nirschl, T. R., Lim, M., Drake, C. G., Marchionni, L.
AMER ASSOC CANCER RESEARCH.2020

- **The Effects of Postoperative Neurological Deficits on Survival in Patients With Single Brain Metastasis.** *Operative neurosurgery (Hagerstown, Md.)*
Medikonda, R., Jackson, C. M., Feghali, J., Lim, M.
2020
- **A systematic review and meta-analysis of supratotal versus gross total resection for glioblastoma** *JOURNAL OF NEURO-ONCOLOGY*
Jackson, C., Choi, J., Khalafallah, A. M., Price, C., Bettegowda, C., Lim, M., Gallia, G., Weingart, J., Brem, H., Mukherjee, D.
2020; 148 (3): 419–31
- **Updated safety phase I trial of anti-LAG-3 alone and in combination with anti-PD-1 in patients with recurrent GBM.**
Lim, M., Ye, X., Piotrowski, A. F., Desai, A., Ahluwalia, M., Walbert, T., Fisher, J. D., Desideri, S., Nabors, L. B., Wen, P. Y., Grossman, S. A.
AMER SOC CLINICAL ONCOLOGY.2020
- **GBM AGILE: A global, phase II/III adaptive platform trial to evaluate multiple regimens in newly diagnosed and recurrent glioblastoma.**
Buxton, M., Alexander, B., Berry, D. A., Cavenee, W. K., Colman, H., De Groot, J., Ellingson, B. M., Gordon, G. B., Khasraw, M., Lassman, A. B., Li, W., Lim, M., Mellinghoff, et al
LIPPINCOTT WILLIAMS & WILKINS.2020
- **A review of glioblastoma immunotherapy** *JOURNAL OF NEURO-ONCOLOGY*
Medikonda, R., Dunn, G., Rahman, M., Fecci, P., Lim, M.
2020
- **Understanding innate immune response in glioblastoma in search of a way forward** *NEURO-ONCOLOGY*
Pant, A., Lim, M.
2020; 22 (4): 444–45
- **New Prospects for Molecular Targets for Chordomas** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Ozair, M., Shah, P., Mathios, D., Lim, M., Moss, N. S.
2020; 31 (2): 289–+
- **Characterizing patterns of cytokine coexpression with immune checkpoint markers in CD4 and CD8 tumor-infiltrating lymphocytes.**
Jackson, C. M., Dinalankara, W., Choi, J., Nirschl, T. R., Kochel, C. M., Pant, A., Routkevitch, D., Saleh, L., Jackson, C., Skaist, A. M., Gupta, A., Snyder, L. A., Schaeffer, et al
AMER ASSOC CANCER RESEARCH.2020: 47–48
- **Absence of Ischemic Injury after Sacrificing the Superior Petrosal Vein during Microvascular Decompression.** *Operative neurosurgery (Hagerstown, Md.)*
Xia, Y., Kim, T. Y., Mashouf, L. A., Patel, K. K., Xu, R., Casaos, J., Choi, J., Kim, E. S., Hung, A. L., Wu, A., Garzon-Muvdi, T., Bender, M. T., Jackson, et al
2020; 18 (3): 316–20
- **In Vivo Bioluminescence Tomography Center of Mass-Guided Conformal Irradiation** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Deng, Z., Xu, X., Garzon-Muvdi, T., Xia, Y., Kim, E., Belcaid, Z., Luksik, A., Maxwell, R., Choi, J., Wang, H., Yu, J., Iordachita, I., Lim, et al
2020; 106 (3): 612–20
- **Integrin alpha 6 signaling induces STAT3-TET3-mediated hydroxymethylation of genes critical for maintenance of glioma stem cells** *ONCOGENE*
Herrmann, A., Lahtz, C., Song, J., Aftabizadeh, M., Cherryholmes, G. A., Xin, H., Adamus, T., Lee, H., Grunert, D., Armstrong, B., Chu, P., Brown, C., Lim, et al
2020; 39 (10): 2156–69
- **Low-dose oncolytic adenovirus therapy overcomes tumor-induced immune suppression and sensitizes intracranial gliomas to anti-PD-1 therapy.** *Neuro-oncology advances*
Belcaid, Z., Berrevoets, C., Choi, J., van Beelen, E., Stavarakaki, E., Pierson, T., Kloezeman, J., Routkevitch, D., van der Kaaij, M., van der Ploeg, A., Mathios, D., Sleijfer, S., Dirven, et al
2020; 2 (1): vdaa011
- **PD-1+ Monocytes Mediate Cerebral Vasospasm Following Subarachnoid Hemorrhage.** *Neurosurgery*
Jackson, C. M., Choi, J. n., Routkevitch, D. n., Pant, A. n., Saleh, L. n., Ye, X. n., Caplan, J. M., Huang, J. n., McDougall, C. G., Pardoll, D. M., Brem, H. n., Tamargo, R. J., Lim, et al

2020

- **PD-L1 Expression in Pediatric Low-Grade Gliomas Is Independent of BRAF V600E Mutational Status** *JOURNAL OF NEUROPATHOLOGY AND EXPERIMENTAL NEUROLOGY*
Martin, A. M., Bell, W., Yuan, M., Harris, L., Poore, B., Arnold, A., Engle, E. L., Asnagli, L., Lim, M., Raabe, E. H., Eberhart, C. G.
2020; 79 (1): 74–85
- **Tumor-Treating Field Arrays Do Not Reduce Target Volume Coverage for Glioblastoma Radiation Therapy** *ADVANCES IN RADIATION ONCOLOGY*
Stachelek, G. C., Grimm, J., Moore, J., Huang, E., Spoleti, N., Redmond, K. J., Lim, M., Bettegowda, C., Kleinberg, L.
2020; 5 (1): 62–69
- **Glioblastoma in adults: a Society for Neuro-Oncology (SNO) and European Society of Neuro-Oncology (EANO) consensus review on current management and future directions.** *Neuro-oncology*
Wen, P. Y., Weller, M., Lee, E. Q., Alexander, B. M., Barnholtz-Sloan, J. S., Barthel, F. P., Batchelor, T. T., Bindra, R. S., Chang, S. M., Chiocca, E. A., Cloughesy, T. F., DeGroot, J. F., Galanis, et al
2020; 22 (8): 1073–1113
- **Adult immuno-oncology: using past failures to inform the future.** *Neuro-oncology*
Rahman, M., Sawyer, W. G., Lindhorst, S., Deleyrolle, L. P., Harrison, J. K., Karachi, A., Dastmalchi, F., Flores-Toro, J., Mitchell, D. A., Lim, M., Gilbert, M. R., Reardon, D. A.
2020; 22 (9): 1249–61
- **ACT001 reduces the expression of PD-L1 by inhibiting the phosphorylation of STAT3 in glioblastoma** *THERANOSTICS*
Tong, L., Li, J., Li, Q., Wang, X., Medikonda, R., Zhao, T., Li, T., Ma, H., Yi, L., Liu, P., Xie, Y., Choi, J., Yu, et al
2020; 10 (13): 5943–56
- **Hemophagocytic Lymphohistiocytosis Secondary to PD-1 and IDO Inhibition in a Patient with Refractory Glioblastoma** *CASE REPORTS IN ONCOLOGY*
Thummalapalli, R., Heumann, T., Stein, J., Khan, S., Priemer, D. S., Duffield, A. S., Lattera, J., Couzi, R., Lim, M., Holdhoff, M.
2020; 13 (2): 508–14
- **Genome-wide investigation of intragenic DNA methylation identifies ZMIZ1 gene as a prognostic marker in glioblastoma and multiple cancer types** *INTERNATIONAL JOURNAL OF CANCER*
Mathios, D., Hwang, T., Xia, Y., Phallen, J., Rui, Y., See, A. P., Maxwell, R., Belcaid, Z., Casaos, J., Burger, P. C., McDonald, K. L., Gallia, G. L., Cope, et al
2019; 145 (12): 3425–35
- **PD-L1, PD-1, LAG-3, and TIM-3 in Melanoma: Expression in Brain Metastases Compared to Corresponding Extracranial Tumors** *CUREUS*
Wang, J., Burger, P., Taube, J., Soni, A., Chaichana, K., Sheu, M., Belcaid, Z., Jackson, C., Lim, M.
2019; 11 (12): e6352
- **PD-L1 EXPRESSION IS NEGATIVELY CORRELATED TO OUTCOMES IN PATIENTS WITH MGMT METHYLATED PROMOTERS IN GBM**
Srivastava, S., Choi, J., Lim, M.
OXFORD UNIV PRESS INC.2019: 250
- **IMMUNOGENOMIC RESPONDER PHENOTYPE FROM A PHASE I TRIAL OF ANTI-LAG3 OR ANTI-CD137 ALONE AND IN COMBINATION WITH ANTI-PD-1 IN PATIENTS WITH RECURRENT GBM**
Jackson, C., Choi, J., Zhang, J., Piotrowski, A., Walbert, T., Desai, A., Ahluwalia, M., Nabors, B., Ye, X., Desideri, S., Fisher, J., Wen, P., Grossman, et al
OXFORD UNIV PRESS INC.2019: 122
- **SUPRATOTAL VERSUS GROSS TOTAL RESECTION OF GLIOBLASTOMA: A SYSTEMATIC REVIEW**
Jackson, C., Choi, J., Price, C., Bettegowda, C., Lim, M., Gallia, G., Weingart, J., Brem, H., Mukherjee, D.
OXFORD UNIV PRESS INC.2019: 243
- **NIVOLUMAB VS BEVACIZUMAB IN PATIENTS WITH RECURRENT GLIOBLASTOMA: EXPLORATORY ANALYSIS OF MGMT METHYLATION STATUS AND BASELINE CORTICOSTEROID USE**
Weller, M., Reardon, D., Brandes, A., Sampson, J., Mulholland, P., Wick, A., Baehring, J., Ahluwalia, M., Roth, P., Baehr, O., Phuphanich, S., Sepulveda, J., De Souza, et al
OXFORD UNIV PRESS INC.2019: 12

- **MULTI-TIME POINT EVALUATION OF PERIPHERAL BLOOD MYELOID-DERIVED SUPPRESSOR CELL AND LYMPHOCYTE POPULATIONS IN PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA RECEIVING ADJUVANT THERAPY**
Sloan, L., Sen, R., Doucet, M., Blosser, L., Shpitser, I., Sherman, E., San, N., Cheng, Z., Katulis, L., Wemmer, J., Kamson, D., Jackson, C., Hu, et al
OXFORD UNIV PRESS INC.2019: 283
- **Radiotherapy, Lymphopenia, and Host Immune Capacity in Glioblastoma: A Potentially Actionable Toxicity Associated With Reduced Efficacy of Radiotherapy** *NEUROSURGERY*
Kleinberg, L., Sloan, L., Grossman, S., Lim, M.
2019; 85 (4): 441–53
- **Assessing the Effectiveness of Systemic Therapy after Stereotactic Radiosurgery on Cancer Recurrence and All-Cause Mortality** *WORLD NEUROSURGERY*
Al-Khindi, T., Shen, C. J., Peng, L., Redmond, K. J., Lim, M., Kleinberg, L. R., Bettegowda, C.
2019; 129: E572–E581
- **Association Between Radiofrequency Rhizotomy Parameters and Duration of Pain Relief in Trigeminal Neuralgia Patients with Recurrent Pain** *WORLD NEUROSURGERY*
Xie, E., Garzon-Muvdi, T., Bender, M., Doshi, T., Carson, B., Lim, M., Bettegowda, C.
2019; 129: E128–E133
- **Targeting Myeloid Cells in Combination Treatments for Glioma and Other Tumors** *FRONTIERS IN IMMUNOLOGY*
Ding, A. S., Routkevitch, D., Jackson, C., Lim, M.
2019; 10: 1715
- **Integrative analysis of DNA methylation suggests down-regulation of oncogenic pathways and reduced somatic mutation rates in survival outliers of glioblastoma** *ACTA NEUROPATHOLOGICA COMMUNICATIONS*
Hwang, T., Mathios, D., McDonald, K. L., Daris, I., Park, S., Burger, P. C., Kim, S., Dho, Y., Carolyn, H., Bettegowda, C., Shin, J., Lim, M., Park, et al
2019; 7: 88
- **Surgical Resection for Primary Central Nervous System Lymphoma: A Systematic Review** *WORLD NEUROSURGERY*
Labak, C. M., Holdhoff, M., Bettegowda, C., Gallia, G. L., Lim, M., Weingart, J. D., Mukherjee, D.
2019; 126: E1436–E1448
- **Updated phase I trial of anti-LAG-3 or anti-CD137 alone and in combination with anti-PD-1 in patients with recurrent GBM.**
Lim, M., Ye, X., Piotrowski, A. F., Desai, A., Ahluwalia, M., Walbert, T., Fisher, J. D., Desideri, S., Belcaid, Z., Jackson, C., Nabors, L. B., Wen, P. Y., Grossman, et al
AMER SOC CLINICAL ONCOLOGY.2019
- **Phase II study to evaluate safety and efficacy of MEDI4736 (durvalumab) plus radiotherapy in patients with newly diagnosed unmethylated MGMT glioblastoma (new unmeth GBM).**
Reardon, D. A., Kaley, T., Dietrich, J., Clarke, J., Dunn, G., Lim, M., Cloughesy, T., Gan, H., Park, A. J., Schwarzenberger, P., Ricciardi, T., Macri, M. J., Ryan, et al
AMER SOC CLINICAL ONCOLOGY.2019
- **Combination anti-CXCR4 and anti-PD-1 immunotherapy provides survival benefit in glioblastoma through immune cell modulation of tumor microenvironment.** *Journal of neuro-oncology*
Wu, A., Maxwell, R., Xia, Y., Cardarelli, P., Oyasu, M., Belcaid, Z., Kim, E., Hung, A., Luksik, A. S., Garzon-Muvdi, T., Jackson, C. M., Mathios, D., Theodros, et al
2019
- **Utilization of the Nasoseptal Flap for Repair of Cerebrospinal Fluid Leak after Endoscopic Endonasal Approach for Resection of Pituitary Tumors.** *Brain tumor research and treatment*
Kessler, R. A., Garzon-Muvdi, T., Kim, E., Ramanathan, M., Lim, M.
2019; 7 (1): 10–15
- **A Characterization of Dendritic Cells and Their Role in Immunotherapy in Glioblastoma: From Preclinical Studies to Clinical Trials** *CANCERS*
Srivastava, S., Jackson, C., Kim, T., Choi, J., Lim, M.
2019; 11 (4)
- **Extracranial Abscopal Responses after Radiation Therapy for Intracranial Metastases: A Review of the Clinical Literature and Commentary on Mechanism** *CUREUS*

- Gui, C., Kleinberg, L. R., Lim, M., Redmond, K. J.
2019; 11 (3): e4207
- **Bespoke immunotherapy: how close are we?** *NEURO-ONCOLOGY*
Jackson, C., Lim, M.
2019; 21 (3): 289–90
 - **Commentary: Does Stereotactic Radiosurgery Have a Role in the Management of Patients Presenting With 4 or More Brain Metastases?** *NEUROSURGERY*
Kleinberg, L., Lim, M.
2019; 84 (3): 567–68
 - **Why is immunotherapy for glioblastoma "Lag"-ging.** *Oncotarget*
Mathios, D., Lim, M.
2019; 10 (12): 1228–29
 - **Investigating in vivo synergistic effect of checkpoint blockade and radiation therapy against chordomas in a humanized mouse model**
Ishida, W., McCormick, K. L., Mahajan, A., Feldstein, E., Lim, M., Bruce, J. N., Canoll, P. D., Lo, S. L.
AMER ASSOC CANCER RESEARCH.2019
 - **Risk of Developing Postoperative Deficits Based on Tumor Location after Surgical Resection of an Intracranial Meningioma** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Ehresman, J. S., Garzon-Muvdi, T., Rogers, D., Lim, M., Gallia, G. L., Weingart, J., Brem, H., Bettgowda, C., Chaichana, K. L.
2019; 80 (1): 59–66
 - **Identifying Recurrent Malignant Glioma after Treatment Using Amide Proton Transfer-Weighted MR Imaging: A Validation Study with Image-Guided Stereotactic Biopsy** *CLINICAL CANCER RESEARCH*
Jiang, S., Eberhart, C. G., Lim, M., Heo, H., Zhang, Y., Blair, L., Wen, Z., Holdhoff, M., Lin, D., Huang, P., Qin, H., Quinones-Hinojosa, A., Weingart, et al
2019; 25 (2): 552–61
 - **Deferred Radiotherapy After Debulking of Non-functioning Pituitary Macroadenomas: Clinical Outcomes** *FRONTIERS IN ONCOLOGY*
Nicholas, S. E., Salvatori, R., Quinones-Hinojosa, A., Redmond, K., Gallia, G., Lim, M., Rigamonti, D., Brem, H., Kleinberg, L.
2019; 8: 660
 - **Updated risk models demonstrate low risk of symptomatic radionecrosis following stereotactic radiosurgery for brain metastases.** *Surgical neurology international*
Peng, L., Grimm, J., Gui, C., Shen, C. J., Redmond, K. J., Sloan, L., Hazell, S., Moore, J., Huang, E., Spoleti, N., Laub, W., Quon, H., Bettgowda, et al
2019; 10: 32
 - **Thalamic gliomas: Advances in the surgical management** *NEW TECHNIQUES FOR MANAGEMENT OF INOPERABLE GLIOMAS*
Hung, A., Wu, A., Jackson, C., Lim, M., Sughrue, M. E., Yang
2019: 117-135
 - **Targeting DDX3 in Medulloblastoma Using the Small Molecule Inhibitor RK-33** *TRANSLATIONAL ONCOLOGY*
Tantravedi, S., Vesuna, F., Winnard, P. T., Martin, A., Lim, M., Eberhart, C. G., Berlinicke, C., Raabe, E., van Diest, P. J., Raman, V.
2019; 12 (1): 96–105
 - **Expression of LAG-3 and efficacy of combination treatment with anti-LAG-3 and anti-PD-1 monoclonal antibodies in glioblastoma** *INTERNATIONAL JOURNAL OF CANCER*
Harris-Bookman, S., Mathios, D., Martin, A. M., Xia, Y., Kim, E., Xu, H., Belcaid, Z., Polanczyk, M., Barberi, T., Theodoros, D., Kim, J., Taube, J. M., Burger, et al
2018; 143 (12): 3201–8
 - **Contrasting impact of corticosteroids on anti-PD-1 immunotherapy efficacy for tumor histologies located within or outside the central nervous system** *ONCOIMMUNOLOGY*
Maxwell, R., Luksik, A. S., Garzon-Muvdi, T., Hung, A. L., Kim, E. S., Wu, A., Xia, Y., Belcaid, Z., Gorelick, N., Choi, J., Theodoros, D., Jackson, C. M., Mathios, et al
2018; 7 (12): e1500108

- **Distinguishing True Progression From Radionecrosis After Stereotactic Radiation Therapy for Brain Metastases With Machine Learning and Radiomics** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Peng, L., Parekh, V., Huang, P., Lin, D. D., Sheikh, K., Baker, B., Kirschbaum, T., Silvestri, F., Son, J., Robinson, A., Huang, E., Ames, H., Grimm, et al
2018; 102 (4): 1236–43
- **TUMOR-TREATING FIELDS THERAPY IS COMPATIBLE WITH STANDARD CHEMORADIOTHERAPY FOR GLIOBLASTOMA**
Stachelek, G., Grimm, J., Lim, M., Bettegowda, C., Redmond, K., Kleinberg, L.
OXFORD UNIV PRESS INC.2018: 228
- **Local recurrence patterns after postoperative stereotactic radiation surgery to resected brain metastases: A quantitative analysis to guide target delineation** *PRACTICAL RADIATION ONCOLOGY*
Gui, C., Moore, J., Grimm, J., Kleinberg, L., McNutt, T., Shen, C., Chen, L., Bettegowda, C., Lim, M., Redmond, K. J.
2018; 8 (6): 388–96
- **IN VIVO SYNERGISTIC EFFECT OF CHECKPOINT BLOCKADE AND RADIATION THERAPY AGAINST CHORDOMAS IN A HUMANIZED MOUSE MODEL**
Ishida, W., McCormick, K., Mahajan, A., Feldstein, E., Lim, M., Bruce, J., Canoll, P., Lo, S.
OXFORD UNIV PRESS INC.2018: 276
- **LOCAL ONCOLYTIC ADENOVIRUS TREATMENT AFFECTS BOTH THE INNATE AND ADAPTIVE ARMS OF THE IMMUNE SYSTEM AND PROVIDES AN AVENUE FOR ENHANCING IMMUNOTHERAPIES FOR GBM**
Lamfers, M., Belcaid, Z., van den Bossche, W., Kleijn, A., Berrevoets, C., Lamers, C., Teunissen, C., Noske, D., Lim, M., Sleijfer, S., Debets, R., van Dongen, J., Dirven, et al
OXFORD UNIV PRESS INC.2018: 85
- **PHASE 2 STUDY TO EVALUATE THE CLINICAL EFFICACY AND SAFETY OF MEDI4736 (DURVALUMAB, DURVA) plus BEVACIZUMAB (BEV) IN BEV-NAIVE PATIENTS WITH RECURRENT GLIOBLASTOMA (GBM)**
Reardon, D., Kaley, T., Dietrich, J., Clarke, J., Dunn, G., Lim, M., Cloughesy, T., Gan, H., Park, A., Schwarzenberger, P., Ricciardi, T., Macri, M., Ryan, et al
OXFORD UNIV PRESS INC.2018: 10
- **UPDATED RESULTS OF A PHASE I TRIAL OF ANTI-LAG-3 OR ANTI-CD137 ALONE AND IN COMBINATION WITH ANTI-PD-1 IN PATIENTS WITH RECURRENT GBM**
Lim, M., Ye, X., Nabors, L., Piotrowski, A., Ahluwalia, M., Desai, A., Walbert, T., Fisher, J., Desideri, S., Sims, M., Wen, P., Grossman, S.
OXFORD UNIV PRESS INC.2018: 5
- **Absence of host NF-kappa B p50 induces murine glioblastoma tumor regression, increases survival, and decreases T-cell induction of tumor-associated macrophage M2 polarization** *CANCER IMMUNOLOGY IMMUNOTHERAPY*
Barberi, T., Martin, A., Suresh, R., Barakat, D. J., Harris-Bookman, S., Drake, C. G., Lim, M., Friedman, A. D.
2018; 67 (10): 1491–1503
- **REPLY TO HAFFNER ET AL.: DNA hypomethylation renders tumors more immunogenic** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Stone, M. L., Chiappinelli, K. B., Li, H., Murphy, L. M., Travers, M. E., Topper, M. J., Mathios, D., Lim, M., Shih, L., Wang, T., Hung, C., Bhargava, V., Wiehagen, et al
2018; 115 (37): E8583–E8584
- **Immunotherapy for Glioblastoma: Playing Chess, Not Checkers** *CLINICAL CANCER RESEARCH*
Jackson, C. M., Lim, M.
2018; 24 (17): 4059–61
- **Concurrent Immune Checkpoint Inhibitors and Radiation Therapy Reply** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Chen, L., Redmond, K., Lim, M.
2018; 101 (4): 998–99
- **Targeting DDX3 in medulloblastoma by RK-33**
Tantravedi, S., Vesuna, F., Martin, A., Lim, M., Eberhart, C. G., van Diest, P. J., Raman, V.
AMER ASSOC CANCER RESEARCH.2018

- **Outcomes of Metastatic Brain Lesions Treated with Radioactive Cs-131 Seeds after Surgery: Experience from One Institution** *CUREUS*
Xia, Y., Mashouf, L. A., Baker, B. R., Maxwell, R., Bettgowda, C., Redmond, K. J., Kleinberg, L. R., Lim, M.
2018; 10 (7): e3075
- **The combination of CXCR4 and checkpoint receptor inhibition improves survival in an orthotopic murine glioma model**
Wu, A., Cardarelli, P., Oyasu, M., Menezes, D., Ponath, P., Cogswell, J., Maxwell, R., Luksik, A., Hung, A., Kim, E., Belcaid, Z., Brem, H., Pardoll, et al
AMER ASSOC CANCER RESEARCH.2018
- **Prior ablative procedure: a prognostic factor for poor outcome of microvascular decompression? Response** *JOURNAL OF NEUROSURGERY*
Theodros, D., Lim, M.
2018; 128 (6): 1905
- **Adult Cranioplasty Reconstruction With Customized Cranial Implants: Preferred Technique, Timing, and Biomaterials** *JOURNAL OF CRANIOFACIAL SURGERY*
Wolff, A., Santiago, G. F., Belzberg, M., Huggins, C., Lim, M., Weingart, J., Anderson, W., Coon, A., Huang, J., Brem, H., Gordon, C.
2018; 29 (4): 887–94
- **Nivolumab with or without ipilimumab in patients with recurrent glioblastoma: results from exploratory phase I cohorts of CheckMate 143** *NEURO-ONCOLOGY*
Omuro, A., Vlahovic, G., Lim, M., Sahebjam, S., Baehring, J., Cloughesy, T., Voloschin, A., Ramkissoon, S. H., Ligon, K. L., Latek, R., Zwiertes, R., Strauss, L., Paliwal, et al
2018; 20 (5): 674–86
- **Dendritic cell activation enhances anti-PD-1 mediated immunotherapy against glioblastoma.** *Oncotarget*
Garzon-Muvdi, T., Theodros, D., Luksik, A. S., Maxwell, R., Kim, E., Jackson, C. M., Belcaid, Z., Ganguly, S., Tyler, B., Brem, H., Pardoll, D. M., Lim, M.
2018; 9 (29): 20681–97
- **PD-L1 expression in medulloblastoma: an evaluation by subgroup.** *Oncotarget*
Martin, A. M., Nirschl, C. J., Polanczyk, M. J., Bell, W. R., Nirschl, T. R., Harris-Bookman, S., Phallen, J., Hicks, J., Martinez, D., Ogurtsova, A., Xu, H., Sullivan, L. M., Meeker, et al
2018; 9 (27): 19177–91
- **Concurrent Immune Checkpoint Inhibitors and Stereotactic Radiosurgery for Brain Metastases in Non-Small Cell Lung Cancer, Melanoma, and Renal Cell Carcinoma** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Chen, L., Douglass, J., Kleinberg, L., Ye, X., Marciscano, A. E., Forde, P. M., Brahmer, J., Lipson, E., Sharfman, W., Hammers, H., Naidoo, J., Bettgowda, C., Lim, et al
2018; 100 (4): 916–25
- **TIGIT and PD-1 dual checkpoint blockade enhances antitumor immunity and survival in GBM** *ONCOIMMUNOLOGY*
Hung, A. L., Maxwell, R., Theodros, D., Belcaid, Z., Mathios, D., Luksik, A. S., Kim, E., Wu, A., Xia, Y., Garzon-Muvdi, T., Jackson, C., Ye, X., Tyler, et al
2018; 7 (8): e1466769
- **The Relevance of Simpson Grade Resections in Modern Neurosurgical Treatment of World Health Organization Grade I, II, and III Meningiomas** *WORLD NEUROSURGERY*
Ehresman, J. S., Garzon-Muvdi, T., Rogers, D., Lim, M., Gallia, G. L., Weingart, J., Brem, H., Bettgowda, C., Chaichana, K. L.
2018; 109: E588–E593
- **Adjuvant radiotherapy and outcomes of presumed hemorrhagic melanoma brain metastases without malignant cells.** *Surgical neurology international*
Xia, Y., Mashouf, L. A., Maxwell, R., Peng, L. C., Lipson, E. J., Sharfman, W. H., Bettgowda, C., Redmond, K. J., Kleinberg, L. R., Lim, M.
2018; 9: 146
- **Epigenetic therapy activates type I interferon signaling in murine ovarian cancer to reduce immunosuppression and tumor burden** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Stone, M. L., Chiappinelli, K. B., Li, H., Murphy, L. M., Travers, M. E., Topper, M. J., Mathios, D., Lim, M., Shih, I., Wang, T., Hung, C., Bhargava, V., Wiehagen, et al
2017; 114 (51): E10981–E10990

- **Go, no-go decision making for phase 3 clinical trials: ACT IV revisited - Authors' reply.** *The Lancet. Oncology*
Weller, M., Butowski, N., Tran, D. D., Recht, L. D., Lim, M., Hirte, H., Ashby, L., Mechtler, L., Goldlust, S. A., Iwamoto, F., Drappatz, J., O'Rourke, D. M., Wong, et al
2017; 18 (12): e709-e710
- **Postoperative sinonasal morbidity in sellar reconstruction: mucosal autograft versus acellular dermal allograft**
Roxbury, C. R., Magruder, J., Ramanathan, M., Lim, M., Gallia, G. L., Ishii, M., Reh, D. D.
WILEY.2017: 1178–85
- **Go, no-go decision making for phase 3 clinical trials: ACT IV revisited Reply** *LANCET ONCOLOGY*
Weller, M., Butowski, N., Tran, D. D., Recht, L. D., Lim, M., Hirte, H., Ashby, L., Mechtler, L., Goldlust, S. A., Iwamoto, F., Drappatz, J., O'Rourke, D. M., Wong, et al
2017; 18 (12): E709–E710
- **PHASE I TRIAL OF ANTI-LAG-3 OR ANTI-CD137 ALONE AND IN COMBINATION WITH ANTI-PD-1 IN PATIENTS WITH RECURRENT GBM**
Lim, M., Ye, X., Nabors, B., Piotrowski, A. F., Fisher, J., Desideri, S., Sims, M., Wen, P., Grossman, S. A.
OXFORD UNIV PRESS INC.2017: 31
- **POPULATION PHARMACOKINETIC (PPK) ANALYSIS OF NIVOLUMAB FLAT AND WEIGHT-BASED DOSING REGIMENS AND ASSOCIATIONS WITH SAFETY IN PATIENTS WITH RECURRENT GLIOBLASTOMA (RGBM) TREATED IN CHECKMATE 143**
Shen, J., Hruska, M., Zwirter, R., Potter, V., Paliwal, P., Roy, A., Bello, A., Suryawanshi, S., Lim, M.
OXFORD UNIV PRESS INC.2017: 30
- **PHASE 2 STUDY TO EVALUATE THE CLINICAL EFFICACY AND SAFETY OF MEDI4736 (DURVALUMAB [DUR]) IN PATIENTS WITH BEVACIZUMAB (BEV)-REFRACTORY RECURRENT GLIOBLASTOMA (GBM)**
Reardon, D., Kaley, T., Dietrich, J., Clarke, J. L., Dunn, G. P., Lim, M., Cloughesy, T., Gan, H. K., Park, A., Schwarzenberger, P., Ricciardi, T., Macri, M., Ryan, et al
OXFORD UNIV PRESS INC.2017: 28
- **A PILOT STUDY OF STEREOTACTIC RADIOSURGERY (SRS) COMBINED WITH IPILIMUMAB PROLONGED SURVIVAL IN PATIENTS WITH NEWLY DIAGNOSED MELANOMA BRAIN METASTASES**
Lim, M., Kleinberg, L., Ye, X., Nicholas, S., Lin, D., Redmond, K., Bettgowda, C., Sharfman, W., Lipson, E.
OXFORD UNIV PRESS INC.2017: 27
- **Rindopepimut with temozolomide for patients with newly diagnosed, EGFRvIII-expressing glioblastoma (ACT IV): a randomised, double-blind, international phase 3 trial** *LANCET ONCOLOGY*
Weller, M., Butowski, N., Tran, D. D., Recht, L. D., Lim, M., Hirte, H., Ashby, L., Mechtler, L., Goldlust, S. A., Iwamoto, F., Drappatz, J., O'Rourke, D. M., Wong, et al
2017; 18 (10): 1373–85
- **The Role of Immune Checkpoint Inhibition in the Treatment of Brain Tumors** *NEUROTHERAPEUTICS*
Luksik, A. S., Maxwell, R., Garzon-Muvdi, T., Lim, M.
2017; 14 (4): 1049–65
- **Targeting cytokines for treatment of neuropathic pain** *SCANDINAVIAN JOURNAL OF PAIN*
Hung, A. L., Lim, M., Doshi, T. L.
2017; 17: 287–93
- **Long-term Treatment Response and Patient Outcomes for Vestibular Schwannoma Patients Treated with Hypofractionated Stereotactic Radiotherapy** *FRONTIERS IN ONCOLOGY*
Patel, M. A., Marciscano, A. E., Hu, C., Jusue-Torres, I., Garg, R., Rashid, A., Francis, H. W., Lim, M., Redmond, K. J., Rigamonti, D., Kleinberg, L. R.
2017; 7: 200
- **Immunotherapy and radiation in glioblastoma** *JOURNAL OF NEURO-ONCOLOGY*
Sahebjam, S., Sharabi, A., Lim, M., Kesarwani, P., Chinnaiyan, P.
2017; 134 (3): 531–39
- **Amide proton transfer-weighted magnetic resonance image-guided stereotactic biopsy in patients with newly diagnosed gliomas** *EUROPEAN JOURNAL OF CANCER*

- Jiang, S., Eberhart, C. G., Zhang, Y., Heo, H., Wen, Z., Blair, L., Qin, H., Lim, M., Quinones-Hinojosa, A., Weingart, J. D., Barker, P. B., Pomper, M. G., Laterra, et al
2017; 83: 9–18
- **Clinical Trials Investigating Immune Checkpoint Blockade in Glioblastoma** *CURRENT TREATMENT OPTIONS IN ONCOLOGY*
Maxwell, R., Jackson, C. M., Lim, M.
2017; 18 (8): 51
 - **Risk Factors for Preoperative Seizures and Loss of Seizure Control in Patients Undergoing Surgery for Metastatic Brain Tumors** *WORLD NEUROSURGERY*
Wu, A., Weingart, J. D., Gallia, G. L., Lim, M., Brem, H., Bettegowda, C., Chaichana, K. L.
2017; 104: 120–28
 - **Autologous Heat Shock Protein Peptide Vaccination for Newly Diagnosed Glioblastoma: Impact of Peripheral PD-L1 Expression on Response to Therapy** *CLINICAL CANCER RESEARCH*
Bloch, O., Lim, M., Sughrue, M. E., Komotar, R. J., Abrahams, J. M., O'Rourke, D. M., D'Ambrosio, A., Bruce, J. N., Parsa, A. T.
2017; 23 (14): 3575–84
 - **Use of Stereotactic Radiosurgery in Elderly and Very Elderly Patients With Brain Metastases to Limit Toxicity Associated With Whole Brain Radiation Therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Chen, L., Shen, C., Redmond, K. J., Page, B. R., Kummerlowe, M., Mcnutt, T., Bettegowda, C., Rigamonti, D., Lim, M., Kleinberg, L.
2017; 98 (4): 939–47
 - **Long-term Outcomes With Planned Multistage Reduced Dose Repeat Stereotactic Radiosurgery for Treatment of Inoperable High-Grade Arteriovenous Malformations: An Observational Retrospective Cohort Study** *NEUROSURGERY*
Marciscano, A. E., Huang, J., Tamargo, R. J., Hu, C., Khattab, M. H., Aggarwal, S., Lim, M., Redmond, K. J., Rigamonti, D., Kleinberg, L. R.
2017; 81 (1): 136–46
 - **BRAF-V600 mutational status affects recurrence patterns of melanoma brain metastasis** *INTERNATIONAL JOURNAL OF CANCER*
Maxwell, R., Garzon-Muvdi, T., Lipson, E. J., Sharfman, W. H., Bettegowda, C., Redmond, K. J., Kleinberg, L. R., Ye, X., Lim, M.
2017; 140 (12): 2716–27
 - **Biomarkers and Immunotherapeutic Targets in Glioblastoma** *WORLD NEUROSURGERY*
Hung, A. L., Garzon-Muvdi, T., Lim, M.
2017; 102: 494–506
 - **The Potential of Cellular- and Viral-Based Immunotherapies for Malignant Glioma-Dendritic Cell Vaccines, Adoptive Cell Transfer, and Oncolytic Viruses** *CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS*
Maxwell, R., Luksik, A. S., Garzon-Muvdi, T., Lim, M.
2017; 17 (6): 50
 - **Histopathologic review of suspected disease progression in patients with recurrent glioblastoma (GBM) receiving nivolumab +/- ipilimumab: CheckMate 143.**
Sahebjam, S., Ramkissoon, S., Baehring, J. M., Mulholland, P., Grauer, O. M., Cloughesy, T., Reardon, D. A., Lim, M., Zwirtes, R. F., Latek, R., Strauss, L. C., Ligon, K. L.
AMER SOC CLINICAL ONCOLOGY.2017
 - **Spontaneous Intracranial Hypotension after Vestibular Schwannoma Resection Due to an Unexpected Pathology: Tarlov Cysts** *CUREUS*
Pross, S. E., Sharon, J. D., Lim, M., Moghekar, A., Rao, A., Carey, J. P.
2017; 9 (5): e1261
 - **Efficacy of primary microvascular decompression versus subsequent microvascular decompression for trigeminal neuralgia** *JOURNAL OF NEUROSURGERY*
Theodros, D., Goodwin, C., Bender, M. T., Zhou, X., Garzon-Muvdi, T., De la Garza-Ramos, R., Abu-Bonsrah, N., Mathios, D., Blitz, A. M., Olivi, A., Carson, B., Bettegowda, C., Lim, et al
2017; 126 (5): 1691–97
 - **Metastatic Atypical and Anaplastic Meningioma: A Case Series and Review of the Literature** *WORLD NEUROSURGERY*
Kessler, R. A., Garzon-Muvdi, T., Yang, W., Weingart, J., Olivi, A., Huang, J., Brem, H., Lim, M.
2017; 101: 47–56

- **Progressive Low-Grade Glioma: Assessment of Prognostic Importance of Histologic Reassessment and MRI Findings** *WORLD NEUROSURGERY*
Narang, A. K., Chaichana, K. L., Weingart, J. D., Redmond, K. J., Lim, M., Olivi, A., Quinones-Hinojosa, A., Kleinberg, L. R.
2017; 99: 751–57
- **Neurosurgery concepts: Key perspectives on imaging characteristics of spinal metastases, surgery for low back pain, anesthesia for disc surgery, and laminectomy versus laminectomy and fusion for lumbar spondylolisthesis.** *Surgical neurology international*
Lagman, C. n., Chung, L. K., Macyszyn, L. n., Choy, W. n., Smith, Z. A., Dahdaleh, N. S., Bohnen, A. M., Cho, J. M., Colen, C. B., Duckworth, E. n., Germanwala, A. V., Kan, P. n., Khalessi, et al
2017; 8: 9
- **Neurosurgery concepts: Key perspectives on endoscopic versus microscopic resection for pituitary adenomas, surgical decision-making in tuberculoma sellae meningiomas, optic nerve mobilization during resection of craniopharyngiomas, and evaluation of headache and quality of life after endoscopic transphenoidal surgery for pituitary adenomas.** *Surgical neurology international*
Germanwala, A. V., Hoffer, R. n., Lagman, C. n., Chung, L. K., Khalessi, A. A., Zada, G. n., Smith, Z. A., Dahdaleh, N. S., Bohnen, A. M., Cho, J. M., Colen, C. B., Duckworth, E. n., Kan, et al
2017; 8: 52
- **Agonist anti-GITR monoclonal antibody and stereotactic radiation induce immune-mediated survival advantage in murine intracranial glioma (vol 4, 28, 2016)** *JOURNAL FOR IMMUNOTHERAPY OF CANCER*
Patel, M. A., Kim, J. E., Theodoros, D., Tam, A., Velarde, E., Kochel, C. M., Francica, B., Nirschl, T. R., Ghasemzadeh, A., Mathios, D., Harris-Bookman, S., Jackson, C. C., Jackson, et al
2016; 4: 74
- **ACT IV: AN INTERNATIONAL, DOUBLE-BLIND, PHASE 3 TRIAL OF RINDOPEPIMUT IN NEWLY DIAGNOSED, EGFRVIII-EXPRESSING GLIOBLASTOMA**
Weller, M., Butowski, N., Tran, D., Recht, L., Lim, M., Hirte, H., Ashby, L., Mechtler, L., Goldlust, S., Iwamoto, F., Drappatz, J., O'Rourke, D., Wong, et al
OXFORD UNIV PRESS INC.2016: 17–18
- **The strategy of repeat stereotactic radiosurgery without whole brain radiation treatment for new brain metastases: Outcomes and implications for follow-up monitoring** *PRACTICAL RADIATION ONCOLOGY*
Shen, C. J., Rigamonti, D., Redmond, K. J., Kummerlowe, M. N., Lim, M., Kleinberg, L. R.
2016; 6 (6): 409–16
- **NIVOLUMAB COMBINED WITH RADIOTHERAPY WITH OR WITHOUT TEMOZOLOMIDE IN PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA: RESULTS FROM PHASE 1 SAFETY COHORTS IN CHECKMATE 143**
Omuro, A., Vlahovic, G., Baehring, J., Butowski, N., Reardon, D. A., Cloughesy, T., Sahebjam, S., Lim, M., Strauss, L., Latek, R., Zwirowski, R., Paliwal, P., Harbison, et al
OXFORD UNIV PRESS INC.2016: 21
- **PHASE 2 STUDY TO EVALUATE THE CLINICAL EFFICACY AND SAFETY OF MEDI4736 (DURVALUMAB [DUR]) IN PATIENTS WITH GLIOBLASTOMA (GBM): RESULTS FOR COHORT B (DUR MONOTHERAPY), BEVACIZUMAB (BEV) NAIVE PATIENTS WITH RECURRENT GBM**
Reardon, D., Kaley, T., Dietrich, J., Lim, M., Dunn, G., Gan, H., Cloughesy, T., Clarke, J., Park, A., Macri, M., Ryan, A., Ricciardi, T., Reddy, et al
OXFORD UNIV PRESS INC.2016: 18
- **MODULATING THE MYELOID COMPARTMENT TO POTENTIATE ANTI-PD1 MEDIATED IMMUNOTHERAPY AGAINST GLIOBLASTOMA**
Muvdi, T., Theodoros, D., Carrera-Haro, M., Kim, E., Jackson, C., Luksik, A., Tyler, B., Brem, H., Padroll, D., Lim, M.
OXFORD UNIV PRESS INC.2016: 99
- **Influence of Insurance Status on Survival of Adults With Glioblastoma Multiforme: A Population-Based Study** *CANCER*
Rong, X., Yang, W., Garzon-Muvdi, T., Caplan, J. M., Hui, X., Lim, M., Huang, J.
2016; 122 (20): 3157–65
- **Layered sellar reconstruction with avascular free grafts: Acceptable alternative to the nasoseptal flap for repair of low-volume intraoperative cerebrospinal fluid leak** *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*
Roxbury, C. R., Saavedra, T., Ramanathan, M., Lim, M., Ishii, M., Gallia, G. L., Reh, D. D.
2016; 30 (5): 367–71
- **Controversies in the Therapy of Brain Metastases: Shifting Paradigms in an Era of Effective Systemic Therapy and Longer-Term Survivorship** *CURRENT TREATMENT OPTIONS IN ONCOLOGY*

- Shen, C. J., Lim, M., Kleinberg, L. R.
2016; 17 (9): 46
- **Discussion on: Usefulness of an Osteotomy Template for Skull Tumorectomy and Simultaneous Skull Reconstruction** *JOURNAL OF CRANIOFACIAL SURGERY*
Gordon, C. R., Murphy, R. J., Armand, M., Liacouras, P., Weingart, J., Huang, J., Brem, H., Lim, M.
2016; 27 (6): 1568–70
 - **Timely stereotactic body radiotherapy (SBRT) for spine metastases using a rapidly deployable automated planning algorithm** *SPRINGERPLUS*
Mian, O. Y., Thomas, O., Lee, J. Y., Le, Y., McNutt, T., Lim, M., Rigamonti, D., Wolinsky, J., Sciubba, D. M., Gokaslan, Z. L., Redmond, K., Kleinberg, L.
2016; 5: 1337
 - **A Systematic Analysis of the Reliability of Diffusion Tensor Imaging Tractography for Facial Nerve Imaging in Patients with Vestibular Schwannoma** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Ung, N., Mathur, M., Chung, L. K., Cremer, N., Pelargos, P., Frew, A., Thill, K., Mathur, I., Voth, B., Lim, M., Yang, I.
2016; 77 (4): 314–18
 - **Next-generation sequencing in neuropathologic diagnosis of infections of the nervous system** *NEUROLOGY-NEUROIMMUNOLOGY & NEUROINFLAMMATION*
Salzberg, S. L., Breitwieser, F. P., Kumar, A., Hao, H., Burger, P., Rodriguez, F. J., Lim, M., Quinones-Hinojosa, A., Gallia, G. L., Tornheim, J. A., Melia, M. T., Sears, C. L., Pardo, et al
2016; 3 (4): e251
 - **Preface** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Lee, J. K., Lim, M.
2016; 27 (3): IX
 - **Stereotactic Radiosurgery: Treatment of Brain Metastasis Without Interruption of Systemic Therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Shen, C. J., Kummerlowe, M. N., Redmond, K. J., Rigamonti, D., Lim, M. K., Kleinberg, L. R.
2016; 95 (2): 735–42
 - **Phase 2 study to evaluate the clinical efficacy and safety of MEDI4736 (durvalumab) in patients with glioblastoma (GBM).**
Reardon, D. A., Kaley, T., Dietrich, J., Lim, M., Dunn, G. P., Gan, H., Cloughesy, T., Clarke, J., Park, A. J., Macri, M. J., Ryan, A., Ricciardi, T., Reddy, et al
AMER SOC CLINICAL ONCOLOGY.2016
 - **A randomized, phase 3, open-label study of nivolumab versus temozolomide (TMZ) in combination with radiotherapy (RT) in adult patients (pts) with newly diagnosed, O-6-methylguanine DNA methyltransferase (MGMT)-unmethylated glioblastoma (GBM): CheckMate-498.**
Sampson, J. H., Omuro, A., Preusser, M., Lim, M., Butowski, N. A., Cloughesy, T., Strauss, L. C., Latek, R., Paliwal, P., Weller, M., Reardon, D. A.
AMER SOC CLINICAL ONCOLOGY.2016
 - **Agonist anti-GITR monoclonal antibody and stereotactic radiation induce immune-mediated survival advantage in murine intracranial glioma** *JOURNAL FOR IMMUNOTHERAPY OF CANCER*
Patel, M. A., Kim, J. E., Theodoros, D., Tam, A., Velarde, E., Kochel, C. M., Francica, B., Nirschl, T. R., Ghasemzadeh, A., Mathios, D., Harris-Bookman, S., Jackson, C. C., Jackson, et al
2016; 4: 28
 - **Current State of Immune-Based Therapies for Glioblastoma.** *American Society of Clinical Oncology educational book. American Society of Clinical Oncology. Annual Meeting*
Lim, M., Weller, M., Chiocca, E. A.
2016: e132–e139
 - **PD-1, PD-L1, PD-L2 expression in the chordoma microenvironment (vol 121, pg 251, 2015)** *JOURNAL OF NEURO-ONCOLOGY*
Mathios, D., Ruzevick, J., Jackson, C. M., Xu, H., Shah, S. R., Taube, J. M., Burger, P. C., McCarthy, E. F., Quinones-Hinojosa, A., Pardoll, D. M., Lim, M.
2016; 128 (1): 183
 - **Establishment and Biological Characterization of a Panel of Glioblastoma Multiforme (GBM) and GBM Variant Oncosphere Cell Lines** *PLOS ONE*

- Binder, Z. A., Wilson, K. M., Salmasi, V., Orr, B. A., Eberhart, C. G., Siu, I., Lim, M., Weingart, J. D., Quinones-Hinojosa, A., Bettegowda, C., Kassam, A. B., Olivi, A., Brem, et al
2016; 11 (3)
- **Laser speckle imaging to improve clinical outcomes for patients with trigeminal neuralgia undergoing radiofrequency thermocoagulation** *JOURNAL OF NEUROSURGERY*
Ringkamp, M., Wooten, M., Carson, B. S., Lim, M., Hartke, T., Guarnieri, M.
2016; 124 (2): 422–28
 - **Current State of Immune-Based Therapies for Glioblastoma.** *American Society of Clinical Oncology educational book. American Society of Clinical Oncology. Annual Meeting*
Lim, M., Weller, M., Chiocca, E. A.
2016; 35: e132–9
 - **Therapeutic administration of IL-15 superagonist complex ALT-803 leads to long-term survival and durable antitumor immune response in a murine glioblastoma model** *INTERNATIONAL JOURNAL OF CANCER*
Mathios, D., Park, C., Marcus, W. D., Alter, S., Rhode, P. R., Jeng, E. K., Wong, H. C., Pardoll, D. M., Lim, M.
2016; 138 (1): 187–94
 - **Immune Checkpoint Modulators: An Emerging Antiglioma Armamentarium** *JOURNAL OF IMMUNOLOGY RESEARCH*
Kim, E. S., Kim, J. E., Patel, M. A., Mangraviti, A., Ruzevick, J., Lim, M.
2016; 2016: 4683607
 - **Phase 2 study to evaluate the clinical efficacy and safety of MEDI4736 in patients with glioblastoma (GBM)**
Reardon, D. A., Dietrich, J., Kaley, T., Gan, H., Dunn, G. P., Cloughesy, T., Lim, M., Clarke, J., Park, A., Pang, L., Lai, D. W., Karakunnel, J., Robbins, et al
AMER ASSOC CANCER RESEARCH.2016
 - **Ganetespib radiosensitization for liver cancer therapy** *CANCER BIOLOGY & THERAPY*
Chettiar, S. T., Malek, R., Annadanam, A., Nugent, K. M., Kato, Y., Wang, H., Cades, J. A., Taparra, K., Belcaid, Z., Ballew, M., Manmiller, S., Proia, D., Lim, et al
2016; 17 (4): 457–66
 - **Oligometastatic Adenocarcinoma of the Lung: A Therapeutic Opportunity for Long-Term Survival** *CUREUS*
Yarchoan, M., Lim, M., Brahmer, J. R., Ettinger, D.
2015; 7 (12): e409
 - **Reduced CSF leak in complete calvarial reconstructions of microvascular decompression craniectomies using calcium phosphate cement** *JOURNAL OF NEUROSURGERY*
Eseonu, C. I., Goodwin, C., Zhou, X., Theodros, D., Bender, M. T., Mathios, D., Bettegowda, C., Lim, M.
2015; 123 (6): 1476–79
 - **Prognostic factors associated with pain palliation after spine stereotactic body radiation therapy** *JOURNAL OF NEUROSURGERY-SPINE*
Puvanesarajah, V., Lo, S., Aygun, N., Liauw, J. A., Jusue-Torres, I., Lina, I. A., Hadelsberg, U., Elder, B. D., Bydon, A., Bettegowda, C., Sciubba, D. M., Wolinsky, J., Rigamonti, et al
2015; 23 (5): 620–29
 - **Immunomodulation: checkpoint blockade etc.** *NEURO-ONCOLOGY*
Curry, W. T., Lim, M.
2015; 17: 26–31
 - **Radiation and checkpoint blockade immunotherapy: radiosensitisation and potential mechanisms of synergy** *LANCET ONCOLOGY*
Sharabi, A. B., Lim, M., DeWeese, T. L., Drake, C. G.
2015; 16 (13): E498–E509
 - **Prospects of immune checkpoint modulators in the treatment of glioblastoma** *NATURE REVIEWS NEUROLOGY*
Preusser, M., Lim, M., Hafler, D. A., Reardon, D. A., Sampson, J. H.
2015; 11 (9): 504–14
 - **Detection of tumor-derived DNA in cerebrospinal fluid of patients with primary tumors of the brain and spinal cord** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Wang, Y., Springer, S., Zhang, M., McMahon, K., Kinde, I., Dobbyn, L., Ptak, J., Brem, H., Chaichana, K., Gallia, G. L., Gokaslan, Z. L., Groves, M. L., Jallo, et al
2015; 112 (31): 9704–9
- **Risk of surgical site infection in 401 consecutive patients with glioblastoma with and without carmustine wafer implantation** *NEUROLOGICAL RESEARCH*
Chaichana, K. L., Kone, L., Bettgowda, C., Weingart, J. D., Olivi, A., Lim, M., Quinones-Hinojosa, A., Gallia, G. L., Brem, H.
2015; 37 (8): 717–26
 - **Immunosuppressive mechanisms of malignant gliomas: parallels at non-CNS sites** *FRONTIERS IN ONCOLOGY*
Peng, P., Lim, M.
2015; 5: 153
 - **Combining immunotherapy with radiation for the treatment of glioblastoma.** *Journal of neuro-oncology*
Chow, K. K., Hara, W., Lim, M., Li, G.
2015; 123 (3): 459–464
 - **Technical note: Orbitozygomatic craniotomy using an ultrasonic osteotome for precise osteotomies** *CLINICAL NEUROLOGY AND NEUROSURGERY*
Ruzevick, J., Raza, S. M., Recinos, P. F., Chaichana, K., Pradilla, G., Kim, J. E., Olivi, A., Weingart, J., Evans, J., Quinones-Hinojosa, A., Lim, M.
2015; 134: 24–27
 - **The role of checkpoints in the treatment of GBM** *JOURNAL OF NEURO-ONCOLOGY*
Kim, J. E., Lim, M.
2015; 123 (3): 413–23
 - **Introduction: brain tumor immunotherapy** *JOURNAL OF NEURO-ONCOLOGY*
Lim, M., Liau, L. M.
2015; 123 (3): 321–22
 - **Immediate Single-Stage Cranioplasty Following Calvarial Resection for Benign and Malignant Skull Neoplasms Using Customized Craniofacial Implants** *JOURNAL OF CRANIOFACIAL SURGERY*
Berli, J. U., Thomaier, L., Zhong, S., Huang, J., Quinones, A., Lim, M., Weingart, J., Brem, H., Gordon, C. R.
2015; 26 (5): 1456–62
 - **Immunotherapy for glioblastoma: are we finally getting closer?** *NEURO-ONCOLOGY*
Lim, M.
2015; 17 (6): 771–72
 - **Phase II study to evaluate the clinical efficacy and safety of MEDI4736 in patients with glioblastoma (GBM).**
Reardon, D. A., Dietrich, J., Kaley, T., Gan, H., Dunn, G. P., Cloughesy, T., Lim, M., Clarke, J., Park, A. J., Pan, L. S., Lai, D. W., Karakunnel, J., Robbins, et al
AMER SOC CLINICAL ONCOLOGY.2015
 - **Newly diagnosed glioblastoma patients treated with an autologous heat shock protein peptide vaccine: PD-L1 expression and response to therapy**
Bloch, O., Raizer, J. J., Lim, M., Sughrue, M., Komotar, R., Abrahams, J., O'Rourke, D., D'Ambrosio, A., Bruce, J. N., Parsa, A.
AMER SOC CLINICAL ONCOLOGY.2015
 - **Preliminary safety and activity of nivolumab and its combination with ipilimumab in recurrent glioblastoma (GBM): CHECKMATE-143.**
Sampson, J. H., Vlahovic, G., Sahebjam, S., Omuro, A., Baehring, J. M., Hafler, D. A., Voloschin, A., Paliwal, P., Grosso, J., Coric, V., Cloughesy, T. F., Lim, M., Reardon, et al
AMER SOC CLINICAL ONCOLOGY.2015
 - **Stereotactic Radiation Therapy Combined With Immunotherapy: Augmenting the Role of Radiation in Local and Systemic Treatment** *ONCOLOGY-NEW YORK*
Sharabi, A. B., Tran, P. T., Lim, M., Drake, C. G., DeWeese, T. L.
2015; 29 (5): 331–40
 - **Neurosurgery concepts: Key perspectives on dendritic cell vaccines, metastatic tumor treatment, and radiosurgery.** *Surgical neurology international*

- Li, G. n., Sherman, J. H., Cho, J. M., Lim, M. n., Khalessi, A. A., Colen, C. B., Kim, C. Y., Wang, V. Y., Zada, G. n., Smith, Z. A., Yang, I. n.
2015; 6: 6
- **Neurocytoma of the Spinal Cord** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Kim, J. E., Lim, M.
2015; 26 (1): 109-+
 - **PD-1, PD-L1, PD-L2 expression in the chordoma microenvironment** *JOURNAL OF NEURO-ONCOLOGY*
Mathios, D., Ruzevick, J., Jackson, C. M., Xu, H., Shah, S., Taube, J. M., Burger, P. C., McCarthy, E. F., Quinones-Hinojosa, A., Pardoll, D. M., Lim, M.
2015; 121 (2): 251-59
 - **Pituitary adenomas: historical perspective, surgical management and future directions.** *CNS oncology*
Theodros, D., Patel, M., Ruzevick, J., Lim, M., Bettgowda, C.
2015; 4 (6): 411-29
 - **Metastatic Extrapulmonary Small Cell Carcinoma to the Cerebellopontine Angle: A Case Report and Review of the Literature** *CASE REPORTS IN ONCOLOGICAL MEDICINE*
Theodros, D., Goodwin, C., Crane, G. M., Liauw, J., Kleinberg, L., Lim, M.
2015: 847058
 - **Antiangiogenic Therapies and Extracranial Metastasis in Glioblastoma: A Case Report and Review of the Literature** *CASE REPORTS IN ONCOLOGICAL MEDICINE*
Khatab, M. H., Marciscano, A. E., Lo, S. S., Lim, M., Laterra, J. J., Kleinberg, L. R., Redmond, K. J.
2015: 431819
 - **The Future of Glioblastoma Therapy: Synergism of Standard of Care and Immunotherapy** *CANCERS*
Patel, M. A., Kim, J. E., Ruzevick, J., Li, G., Lim, M.
2014; 6 (4): 1953-1985
 - **Management of Cerebral Brain Metastasis** *CURRENT SURGERY REPORTS*
Patel, M. A., Ruzevick, J., Lim, M.
2014; 2 (12)
 - **PD-1 BLOCKADE SHOWS SYNERGISTIC SURVIVAL, ANTI-TUMOR IMMUNE RESPONSE AND LONG-TERM MEMORY WITH INTERSTITIAL BUT NOT SYSTEMIC CHEMOTHERAPY: STUDY IN A MURINE GLIOBLASTOMA MODEL**
Mathios, D., Phallen, J., Park, C., Jackson, C., Nicholas, S., Tyler, B., Pardoll, D., Brem, H., Lim, M.
OXFORD UNIV PRESS INC.2014
 - **Planning Evaluation of C-Arm Cone Beam CT Angiography for Target Delineation in Stereotactic Radiation Surgery of Brain Arteriovenous Malformations** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Kang, J., Huang, J., Gailloud, P., Rigamonti, D., Lim, M., Bernard, V., Ehtiati, T., Ford, E. C.
2014; 90 (2): 430-37
 - **Selective cerebral hypothermia induced via hypothermic retrograde jugular vein saline flush in a porcine model** *NEUROLOGICAL RESEARCH*
Chen, C., Puvanesarajah, V., Lo, S. L., Cheng, T., Cheng, C., Lim, M., Lin, H.
2014; 36 (10): 897-902
 - **TLR9 Is Critical for Glioma Stem Cell Maintenance and Targeting** *CANCER RESEARCH*
Herrmann, A., Cherryholmes, G., Schroeder, A., Phallen, J., Alizadeh, D., Xin, H., Wang, T., Lee, H., Lahtz, C., Swiderski, P., Armstrong, B., Kowolik, C., Gallia, et al
2014; 74 (18): 5218-28
 - **Technical Nuances of Microvascular Decompression of the Posterior Fossa Cranial Nerves: 3-Dimensional Operative Video** *OPERATIVE NEUROSURGERY*
Binning, M. J., Veznedaroglu, E.
2014; 10 (3): 487
 - **Immunotherapy for Brain Cancer: Recent Progress and Future Promise** *CLINICAL CANCER RESEARCH*
Jackson, C. M., Lim, M., Drake, C. G.

2014; 20 (14): 3651–59

- **Focal Radiation Therapy Combined with 4-1BB Activation and CTLA-4 Blockade Yields Long-Term Survival and a Protective Antigen-Specific Memory Response in a Murine Glioma Model** *PLOS ONE*
Belcaid, Z., Phallen, J. A., Zeng, J., See, A. P., Mathios, D., Gottschalk, C., Nicholas, S., Kellett, M., Ruzevick, J., Jackson, C., Albesiano, E., Durham, N. M., Ye, et al
2014; 9 (7): e101764
- **Identifying Better Surgical Candidates Among Recursive Partitioning Analysis Class 2 Patients who Underwent Surgery for Intracranial Metastases** *WORLD NEUROSURGERY*
Chaichana, K. L., Acharya, S., Flores, M., Wijesekera, O., Rigamonti, D., Weingart, J. D., Olivi, A., Bettegowda, C., Gallia, G. L., Brem, H., Lim, M., Quinones-Hinojosa, A.
2014; 82 (1-2): E267–E275
- **DIFFERENTIAL EXPRESSION OF PD-L1 ON HEMATOPOIETIC VERSUS TUMOR CELLS IN MEDULLOBLASTOMA**
Martin, A. M., Nirschl, C., Polanczyk, M., Bell, R., Martinez, D., Sullivan, L. M., Santi, M., Burger, P. C., Taube, J. M., Drake, C. G., Pardoll, D. M., Lim, M.
OXFORD UNIV PRESS INC.2014: 89
- **Multidisciplinary Approach for Improved Outcomes in Secondary Cranial Reconstruction: Introducing the Pericranial-Onlay Cranioplasty Technique** *OPERATIVE NEUROSURGERY*
Gordon, C. R., Fisher, M., Liauw, J., Lina, I., Puvanesarajah, V., Susarla, S., Coon, A., Lim, M., Quinones-Hinojosa, A., Weingart, J., Colby, G., Olivi, A., Huang, et al
2014; 10 (2): 179–89
- **Postradiation imaging changes in the CNS: how can we differentiate between treatment effect and disease progression?** *FUTURE ONCOLOGY*
Walker, A. J., Ruzevick, J., Malayeri, A. A., Rigamonti, D., Lim, M., Redmond, K. J., Kleinberg, L.
2014; 10 (7): 1277–97
- **alpha 5-GABAA receptors negatively regulate MYC-amplified medulloblastoma growth** *ACTA NEUROPATHOLOGICA*
Sengupta, S., Weeraratne, S. D., Sun, H., Phallen, J., Rallapalli, S. K., Teider, N., Kosaras, B., Amani, V., Pierre-Francois, J., Tang, Y., Brian Nguyen, B., Yu, F., Schubert, et al
2014; 127 (4): 593-603
- **Invasive adenoma and pituitary carcinoma: a SEER database analysis** *NEUROSURGICAL REVIEW*
Hansen, T. M., Batra, S., Lim, M., Gallia, G. L., Burger, P. C., Salvatori, R., Wand, G., Quinones-Hinojosa, A., Kleinberg, L., Redmond, K. J.
2014; 37 (2): 279–85
- **The role of regulatory T-cells in glioma immunology** *CLINICAL NEUROLOGY AND NEUROSURGERY*
Ooi, Y., Tran, P., Ung, N., Thill, K., Trang, A., Fong, B. M., Nagasawa, D. T., Lim, M., Yang, I.
2014; 119: 125–32
- **STAT3 Activation in Glioblastoma: Biochemical and Therapeutic Implications** *CANCERS*
Kim, J. E., Patel, M., Ruzevick, J., Jackson, C. M., Lim, M.
2014; 6 (1): 376–95
- **Detection of Circulating Tumor DNA in Early- and Late-Stage Human Malignancies** *SCIENCE TRANSLATIONAL MEDICINE*
Bettegowda, C., Sausen, M., Leary, R. J., Kinde, I., Wang, Y., Agrawal, N., Bartlett, B. R., Wang, H., Luber, B., Alani, R. M., Antonarakis, E. S., Azad, N. S., Bardelli, et al
2014; 6 (224): 224ra24
- **Current Vaccine Trials in Glioblastoma: A Review** *JOURNAL OF IMMUNOLOGY RESEARCH*
Xu, L., Chow, K. K., Lim, M., Li, G.
2014
- **Establishing percent resection and residual volume thresholds affecting survival and recurrence for patients with newly diagnosed intracranial glioblastoma** *NEURO-ONCOLOGY*
Chaichana, K. L., Jusue-Torres, I., Navarro-Ramirez, R., Raza, S. M., Pascual-Gallego, M., Ibrahim, A., Hernandez-Hermann, M., Gomez, L., Ye, X., Weingart, J. D., Olivi, A., Blakeley, J., Gallia, et al
2014; 16 (1): 113–22

- **The future of glioblastoma therapy: synergism of standard of care and immunotherapy.** *Cancers*
Patel, M. A., Kim, J. E., Ruzevick, J., Li, G., Lim, M.
2014; 6 (4): 1953-1985
- **The Transconjunctival Transorbital Approach: A Keyhole Approach to the Midline Anterior Skull Base** *WORLD NEUROSURGERY*
Raza, S. M., Quinones-Hinojosa, A., Lim, M., Boahene, K.
2013; 80 (6): 864-71
- **Patients undergoing surgery of intracranial metastases have different outcomes based on their primary pathology** *NEUROLOGICAL RESEARCH*
Chaichana, K. L., Gadkaree, S., Rao, K., Link, T., Rigamonti, D., Purtell, M., Browner, I., Weingart, J., Olivi, A., Gallia, G., Bettegowda, C., Brem, H., Lim, et al
2013; 35 (10): 1059-69
- **Glycerol rhizotomy via a retrosigmoid approach as an alternative treatment for trigeminal neuralgia** *CLINICAL NEUROLOGY AND NEUROSURGERY*
Goodwin, C., Yang, J. X., Bettegowda, C., Hwang, B., James, C., Biser, A., Raza, S., Bender, M., Carson, B., Lee, J. K., Lim, M.
2013; 115 (12): 2454-56
- **AMIDE PROTON TRANSFER MRI OF MALIGNANT GLIOMAS FOR DETECTING ACTIVE VERSUS INACTIVE TUMOR**
Wolf, D., Ye, X., Lim, M., Zhu, H., Wang, M., Quinones-Hinojosa, A., Weingart, J., Olivi, A., van Zijl, P., Laterra, J., Zhou, J., Blakeley, J.
OXFORD UNIV PRESS INC.2013: 204
- **Three-Dimensional Amide Proton Transfer MR Imaging of Gliomas: Initial Experience and Comparison With Gadolinium Enhancement** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Zhou, J., Zhu, H., Lim, M., Blair, L., Quinones-Hinojosa, A., Messina, S. A., Eberhart, C. G., Pomper, M. G., Laterra, J., Barker, P. B., van Zijl, P. M., Blakeley, J. O.
2013; 38 (5): 1119-28
- **THE ROLE OF PD-1 PATHWAY IN CHORDOMAS**
Mathios, D., Lim, M., Ruzevick, J., Nicholas, S., Polanczyk, M., Jackson, C., Taube, J., Burger, P., Martin, A., Xu, H.
OXFORD UNIV PRESS INC.2013: 64-65
- **DEFERRED RADIATION IS AN APPROPRIATE OPTION FOR PATIENTS PRESENTING FOR TREATMENT OF NON-FUNCTIONING PITUITARY MACROADENOMAS WITH RESIDUAL POST SURGICAL TUMOR**
Nicholas, S., Salvatori, R., Lim, M., Redmond, K., Quinones, A., Gallia, G., Rigamonti, D., Kleinberg, L.
OXFORD UNIV PRESS INC.2013: 185
- **Multi-institutional validation of a preoperative scoring system which predicts survival for patients with glioblastoma.** *Journal of clinical neuroscience*
Chaichana, K. L., Pendleton, C., Chambless, L., Camara-Quintana, J., Nathan, J. K., Hassam-Malani, L., Li, G., Harsh, G. R., Thompson, R. C., Lim, M., Quinones-Hinojosa, A.
2013; 20 (10): 1422-1426
- **Survival and Recurrence for Patients Undergoing Surgery of Skull Base Intracranial Metastases** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Chaichana, K. L., Flores, M., Acharya, S., Sampognaro, P., Bettegowda, C., Rigamonti, D., Weingart, J. D., Olivi, A., Gallia, G. L., Brem, H., Lim, M., Quinones-Hinojosa, A.
2013; 74 (4): 228-35
- **Postoperative Anticoagulation in Patients with Mechanical Heart Valves Following Surgical Treatment of Subdural Hematomas** *NEUROCRITICAL CARE*
Amin, A. G., Ng, J., Hsu, W., Pradilla, G., Raza, S., Quinones-Hinojosa, A., Lim, M.
2013; 19 (1): 90-94
- **Increased Subventricular Zone Radiation Dose Correlates With Survival in Glioblastoma Patients After Gross Total Resection** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Chen, L., Guerrero-Cazares, H., Ye, X., Ford, E., McNutt, T., Kleinberg, L., Lim, M., Chaichana, K., Quinones-Hinojosa, A., Redmond, K.
2013; 86 (4): 616-22
- **Factors associated with survival for patients with glioblastoma with poor pre-operative functional status** *JOURNAL OF CLINICAL NEUROSCIENCE*

- Chaichana, K. L., Martinez-Gutierrez, J., De la Garza-Ramos, R., Weingart, J. D., Olivi, A., Gallia, G. L., Lim, M., Brem, H., Quinones-Hinojosa, A. 2013; 20 (6): 818–23
- **Metastatic Melanoma to the Brain: Surgery and Radiation Is Still the Standard of Care** *CURRENT TREATMENT OPTIONS IN ONCOLOGY*
Nicholas, S., Mathios, D., Jackson, C., Lim, M.
2013; 14 (2): 264–79
 - **Current trends in glioblastoma multiforme treatment: radiation therapy and immune checkpoint inhibitors.** *Brain tumor research and treatment*
Nicholas, S., Mathios, D., Ruzevick, J., Jackson, C., Yang, I., Lim, M.
2013; 1 (1): 2–8
 - **Multiple resections for patients with glioblastoma: prolonging survival** *Clinical article JOURNAL OF NEUROSURGERY*
Chaichana, K. L., Zadnik, P., Weingart, J. D., Olivi, A., Gallia, G. L., Blakeley, J., Lim, M., Brem, H., Quinones-Hinojosa, A.
2013; 118 (4): 812–20
 - **MYC AMPLIFICATION STATUS INFLUENCES TUMOR IMMUNE EVASION IN MEDULLOBLASTOMA**
Martin, A., Nirschl, C., Polanczyk, M., Cohen, K., Pardoll, D., Drake, C., Lim, M.
OXFORD UNIV PRESS INC.2013: 15–16
 - **Seizure Control for Patients Undergoing Meningioma Surgery** *WORLD NEUROSURGERY*
Chaichana, K. L., Pendleton, C., Zaidi, H., Olivi, A., Weingart, J. D., Gallia, G. L., Lim, M., Brem, H., Quinones-Hinojosa, A.
2013; 79 (3-4): 515–24
 - **Deep venous thrombosis and pulmonary embolisms in adult patients undergoing craniotomy for brain tumors** *NEUROLOGICAL RESEARCH*
Chaichana, K. L., Pendleton, C., Jackson, C., Martinez-Gutierrez, J., Diaz-Stransky, A., Aguayo, J., Olivi, A., Weingart, J., Gallia, G., Lim, M., Brem, H., Quinones-Hinojosa, A.
2013; 35 (2): 206–11
 - **Vaccine strategies for glioblastoma: progress and future directions** *IMMUNOTHERAPY*
Jackson, C., Ruzevick, J., Brem, H., Lim, M.
2013; 5 (2): 155–67
 - **Glycerol rhizotomy and radiofrequency thermocoagulation for trigeminal neuralgia in multiple sclerosis** *JOURNAL OF NEUROSURGERY*
Bender, M. T., Pradilla, G., Batra, S., See, A. P., James, C., Pardo, C. A., Carson, B. S., Lim, M.
2013; 118 (2): 329–36
 - **A Patient with HIV Treated with Ipilimumab and Stereotactic Radiosurgery for Melanoma Metastases to the Brain** *CASE REPORTS IN ONCOLOGICAL MEDICINE*
Ruzevick, J., Nicholas, S., Redmond, K., Kleinberg, L., Lipson, E. J., Lim, M.
2013: 946392
 - **Handbook of Radiosurgery in CNS Disease Preface** *HANDBOOK OF RADIOSURGERY IN CNS DISEASE*
Lim, M., Hsu, W., Rigamonti, D., Kleinberg, L. R., Lim, M., Hsu, W., Rigamonti, D., Kleinberg, L. R.
2013: IX-X
 - **Technology and Techniques of Cranial Radiosurgery** *HANDBOOK OF RADIOSURGERY IN CNS DISEASE*
Ruzevick, J., Lim, M., Lim, M., Hsu, W., Rigamonti, D., Kleinberg, L. R.
2013: 13–25
 - **Skull-Base Tumors C. Stereotactic Radiosurgery for Glomus Jugulare Tumors** *HANDBOOK OF RADIOSURGERY IN CNS DISEASE*
Guss, Z. D., Amin, A. G., Lim, M., Lim, M., Hsu, W., Rigamonti, D., Kleinberg, L. R.
2013: 77–81
 - **Skull-Base Tumors D. Radiosurgery for Vestibular Schwannomas** *HANDBOOK OF RADIOSURGERY IN CNS DISEASE*
Ruzevick, J., Lim, M., Rigamonti, D., Lim, M., Hsu, W., Rigamonti, D., Kleinberg, L. R.
2013: 83–91
 - **Radiosurgery for Arteriovenous Malformations** *HANDBOOK OF RADIOSURGERY IN CNS DISEASE*
Ruzevick, J., Batra, S., Lim, M., Rigamonti, D., Lim, M., Hsu, W., Rigamonti, D., Kleinberg, L. R.

2013; 123–35

- **Immune Modulation and Stereotactic Radiation: Improving Local and Abscopal Responses** *BIOMED RESEARCH INTERNATIONAL*
Zeng, J., Harris, T. J., Lim, M., Drake, C. G., Tran, P. T.
2013; 2013: 658126
- **The role of STAT3 activation in modulating the immune microenvironment of GBM** *JOURNAL OF NEURO-ONCOLOGY*
See, A. P., Han, J. E., Phallen, J., Binder, Z., Gallia, G., Pan, F., Jinasena, D., Jackson, C., Belcaid, Z., Jeong, S., Gottschalk, C., Zeng, J., Ruzevick, et al
2012; 110 (3): 359–68
- **Predictors of Visual Outcome Following Surgical Resection of Medial Sphenoid Wing Meningiomas** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Chaichana, K. L., Jackson, C., Patel, A., Miller, N. R., Subramanian, P., Lim, M., Gallia, G., Olivi, A., Weingart, J., Brem, H., Quinones-Hinojosa, A.
2012; 73 (5): 321–26
- **ONCOGENIC DRIVERS OF MEDULLOBLASTOMA MAY DETERMINE A NOVEL IMMUNE PHENOTYPE**
Martin, A. M., Nirschl, C., Polanczyk, M., Cohen, K. J., Pardoll, D. M., Drake, C. G., Lim, M.
OXFORD UNIV PRESS INC.2012: 41
- **A PROSPECTIVE STUDY OF MOTOR DYSFUNCTION FOLLOWING CRANIAL IRRADIATION FOR PEDIATRIC BRAIN TUMORS**
Redmond, K. J., Mahone, E. M., Kleinberg, L., Terezakis, S., McNutt, T., Agbahiwe, H., Cohen, K., Lim, M., Wharam, M., Horska, A.
OXFORD UNIV PRESS INC.2012: 137
- **INCREASED RADIATION DOSE TO THE SVZ IMPROVES PROGRESSION FREE SURVIVAL IN GBM PATIENTS**
Chen, L., Guerrero-Cazares, H., Ford, E., McNutt, T., Kleinberg, L., Lim, M., Quinones-Hinojosa, A., Redmond, K.
OXFORD UNIV PRESS INC.2012: 139
- **Real-Time Imaging with the O-Arm for Skull Base Applications: A Cadaveric Feasibility Study** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*
Raza, S. M., See, A. P., Lim, M.
2012; 73 (5): 293–301
- **Subependymoma: clinical features and surgical outcomes** *NEUROLOGICAL RESEARCH*
Jain, A., Amin, A. G., Jain, P., Burger, P., Jallo, G. I., Lim, M., Bettegowda, C.
2012; 34 (7): 677–84
- **The predictive value of serum myeloperoxidase for vasospasm in patients with aneurysmal subarachnoid hemorrhage** *NEUROSURGICAL REVIEW*
Lim, M., Bower, R. S., Wang, Y., Sims, L., Bower, M. R., Camara-Quintana, J., Li, G., Cheshier, S., Harsh, G. R., Steinberg, G. K., Guccione, S.
2012; 35 (3): 413-419
- **Potential Role for STAT3 Inhibitors in Glioblastoma** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Jackson, C., Ruzevick, J., Amin, A. G., Lim, M.
2012; 23 (3): 379+
- **Clinical Trials with Immunotherapy for High-Grade Glioma** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Ruzevick, J., Jackson, C., Phallen, J., Lim, M.
2012; 23 (3): 459+
- **LEVERAGING EXPRESSION OF A5/GABA-A RECEPTOR IN MEDULLOBLASTOMA AS A NOVEL THERAPEUTIC TARGET** *15th International Symposium on Pediatric Neuro-Oncology (ISPNO)*
Sengupta, S., Weeraratne, S. D., Phallen, J., Sun, H., Rallapalli, S., Amani, V., Pierre-Francois, J., Teider, N., Cook, J., Jensen, F., Lim, M., Pomeroy, S., Cho, et al
OXFORD UNIV PRESS INC.2012: 105–105
- **NOVEL IMMUNE CHARACTERISTICS OF MEDULLOBLASTOMA CORRELATE WITH MYC AMPLIFICATION STATUS**
Martin, A., Nirschl, C., Polanczyk, M., Cohen, K. J., Pardoll, D. M., Drake, C. G., Lim, M.
OXFORD UNIV PRESS INC.2012: 93
- **Effectiveness of Repeat Glycerol Rhizotomy in Treating Recurrent Trigeminal Neuralgia** *NEUROSURGERY*

- Bender, M., Pradilla, G., Batra, S., See, A., Bhutiani, N., James, C., Carson, B. S., Lim, M.
2012; 70 (5): 1125–33
- **Overall Survival and Prognostic Factors for Overall Survival Vary by Histology and Performance Status for Patients with Newly Diagnosed Brain Metastases Treated with Gamma Knife**
Todd, A., Lawrence, K., Aizik, W., Sachin, B., Borletto, P., Chettan, B., Beatriz, A., Laurie, B., Coy, S., Redmond, K., Lim, M., Rigamonti, D.
LIPPINCOTT WILLIAMS & WILKINS.2012: 201–2
 - **Perspectives on key articles in neurosurgery.** *Surgical neurology international*
Lim, M., Sherman, J. H., Wang, V. Y., Smith, Z. A., Cho, J. M., Colen, C. B., Kim, C. Y., Zada, G., Li, G., Yang, I.
2012; 3: 58–?
 - **Stereotactic Radiosurgery of Cranial Arteriovenous Malformations and Dural Arteriovenous Fistulas** *NEUROSURGERY CLINICS OF NORTH AMERICA*
See, A. P., Raza, S., Tamargo, R. J., Lim, M.
2012; 23 (1): 133–+
 - **Immunotherapy for glioma: promises and challenges.** *Neurosurgery clinics of North America*
Han, S. J., Zygourakis, C. n., Lim, M. n., Parsa, A. T.
2012; 23 (3): 357–70
 - **Surgical treatment of pediatric trigeminal neuralgia: case series and review of the literature** *CHILDS NERVOUS SYSTEM*
Bender, M. T., Pradilla, G., James, C., Raza, S., Lim, M., Carson, B. S.
2011; 27 (12): 2123–29
 - **RADIOSURGERY OF GLOMUS JUGULARE TUMORS: A META-ANALYSIS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Guss, Z. D., Batra, S., Limb, C. J., Li, G., Sughrue, M. E., Redmond, K., Rigamonti, D., Parsa, A. T., Chang, S., Kleinberg, L., Lim, M.
2011; 81 (4): E497-E502
 - **DEVELOPMENT AND VALIDATION OF A PRE-OPERATIVE PROGNOSTIC SCORING SYSTEM FOR PATIENTS WITH GLIOBLASTOMA** *16th Annual Scientific Meeting of the Society-for-Neuro-Oncology (SNO)/AANS/CNS Section on Tumors*
Chaichana, K., Pendleton, C., Chambless, L., Nathan, J., Camara-Quintana, J., Li, G., Harsh, G., Thompson, R., Lim, M., Quinones-Hinojosa, A.
OXFORD UNIV PRESS INC.2011: 154–155
 - **MEDULLOBLASTOMA: A COMPARISON OF PEDIATRIC AND ADULT PATIENTS TREATED AT THE JOHNS HOPKINS HOSPITAL**
Ishaq, O., Montgomery, J., Terezakis, S., Wharam, M., Lim, M., Holdhoff, M., Kleinberg, L., Redmond, K.
OXFORD UNIV PRESS INC.2011: 29
 - **STEREOTACTIC RADIOSURGERY COMBINED WITH DOUBLE IMMUNOTHERAPY WITH ANTI-CTLA-4 AND ANTI-4-1BB YIELDS LONG-TERM SURVIVAL AND PROTECTIVE ANTITUMOR RESPONSE IN A MOUSE ORTHOTOPIC GLIOBLASTOMA MODEL**
Belcaid, Z., Phallen, J. A., Zeng, J., See, A. P., Albesiano, E., Durham, N. M., Tyler, B., Brem, H., Pardoll, D. M., Drake, C., Lim, M.
OXFORD UNIV PRESS INC.2011: 32
 - **COMBINING ANTI-PD-1 (B7-H1) IMMUNOTHERAPY WITH STEREOTACTIC RADIOSURGERY IN A MOUSE ORTHOTOPIC GLIOBLASTOMA MODEL**
Zeng, J., See, A. P., Phallen, J., Belcaid, Z., Durham, N., Meyer, C., Albesiano, E., Pradilla, G., Ford, E., Hammers, H., Tyler, B., Brem, H., Tran, et al
OXFORD UNIV PRESS INC.2011: 37–38
 - **GENOME-WIDE ANALYSIS OF CLINICALLY SIGNIFICANT CPG METHYLATION SITES IN GLIOBLASTOMA MULTIFORME**
See, A., Hwang, T., Shin, D., Shin, J., Gao, Y., Lim, M.
OXFORD UNIV PRESS INC.2011: 79
 - **Delivery of stereotactic radiosurgery: a cross-platform comparison** *NEUROLOGICAL RESEARCH*
Trang Nguyen, Hsu, W., Lim, M., Naff, N.
2011; 33 (8): 787–91
 - **Endoscopic Transvestibular Paramandibular Exploration of the Infratemporal Fossa and Parapharyngeal Space: A Minimally Invasive Approach to the Middle Cranial Base** *LARYNGOSCOPE*
Chan, J. K., Li, R. J., Lim, M., Hinojosa, A., Boahene, K. D.
2011; 121 (10): 2075–80

- **Nelfinavir induces radiation sensitization in pituitary adenoma cells** *CANCER BIOLOGY & THERAPY*
Zeng, J., See, A. P., Aziz, K., Thiyagarajan, S., Salih, T., Gajula, R. P., Armour, M., Phallen, J., Terezakis, S., Kleinberg, L., Redmond, K., Hales, R. K., Salvatori, et al
2011; 12 (7): 657–63
- **Clinical Outcomes after Treatment of Germ Cell Tumors** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Jackson, C., Jallo, G., Lim, M.
2011; 22 (3): 385+
- **Heat shock protein-peptide complex in the treatment of glioblastoma** *EXPERT REVIEW OF VACCINES*
See, A. P., Pradilla, G., Yang, I., Han, S., Parsa, A. T., Lim, M.
2011; 10 (6): 721–31
- **THE RADIOSURGICAL TREATMENT OF ARTERIOVENOUS MALFORMATIONS: OBLITERATION, MORBIDITIES, AND PERFORMANCE STATUS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Sun, D. Q., Carson, K. A., Raza, S. M., Batra, S., Kleinberg, L. R., Lim, M., Huang, J., Rigamonti, D.
2011; 80 (2): 354–61
- **Treatment of pituitary adenomas using radiosurgery and radiotherapy: a single center experience and review of literature** *NEUROSURGICAL REVIEW*
Sun, D. Q., Cheng, J. J., Frazier, J. L., Batra, S., Wand, G., Kleinberg, L. R., Rigamonti, D., Quinones-Hinojosa, A., Salvatori, R., Lim, M.
2011; 34 (2): 181–89
- **Acute toxicity of second generation HIV protease-inhibitors in combination with radiotherapy: a retrospective case series** *RADIATION ONCOLOGY*
See, A. P., Zeng, J., Tran, P. T., Lim, M.
2011; 6: 25
- **Predictors of Inpatient Death and Complications among Postoperative Elderly Patients with Metastatic Brain Tumors** *ANNALS OF SURGICAL ONCOLOGY*
Grossman, R., Mukherjee, D., Chang, D. C., Purtell, M., Lim, M., Brem, H., Quinones-Hinojosa, A.
2011; 18 (2): 521–28
- **Challenges in Immunotherapy Presented by the Glioblastoma Multiforme Microenvironment** *CLINICAL & DEVELOPMENTAL IMMUNOLOGY*
Jackson, C., Ruzevick, J., Phallen, J., Belcaid, Z., Lim, M.
2011: 732413
- **ESTABLISHMENT OF GBM SUSPENSION CELL LINES**
Binder, Z. A., Salmasi, V., Lim, M., Weingart, J., Brem, H., Olivi, A., Riggins, G. J., Gallia, G. L.
OXFORD UNIV PRESS INC.2010: 134
- **THE ROLE OF STAT3 ACTIVATION IN MODULATING THE IMMUNE MICROENVIRONMENT OF GLIOMAS**
Albesiano, E., Han, J. E., See, A., Jackson, C., Lim, M.
OXFORD UNIV PRESS INC.2010: 31
- **STAT3 INHIBITION ALTERS THE IMMUNE PROFILE IN MURINE GLIOMAS**
Han, J. E., Albesiano, E., Pradilla, G., Lim, M.
OXFORD UNIV PRESS INC.2010: 16–17
- **ADJUVANT STEREOTACTIC RADIOSURGERY INCREASES TUMOR CONTROL RATES IN PATIENTS WITH CEREBRAL METASTASES AFTER SURGICAL RESECTION**
Jackson, C. M., Amin, A., See, P., Pradilla, G., Tryggestad, E., Lim, M.
OXFORD UNIV PRESS INC.2010: 112
- **PODOCALYXIN EXPRESSION CORRELATES WITH ASTROCYTOMA TUMOR GRADE**
Binder, Z. A., Orr, B., Lim, M., Weingart, J. D., Brem, H., Olivi, A., Riggins, G. J., Gallia, G. L.
OXFORD UNIV PRESS INC.2010: 119–20
- **Immunologic Consequences of Signal Transducers and Activators of Transcription 3 Activation in Human Squamous Cell Carcinoma** *CANCER RESEARCH*
Albesiano, E., Davis, M., See, A. P., Han, J. E., Lim, M., Pardoll, D. M., Kim, Y.

2010; 70 (16): 6467–76

- **Transpalpebral Orbitofrontal Craniotomy: A Minimally Invasive Approach to Anterior Cranial Vault Lesions** *SKULL BASE-AN INTERDISCIPLINARY APPROACH*
Boahene, K., Lim, M., Chu, E., Quinones-Hinojosa, A.
2010; 20 (4): 237–44
- **STEREOTACTIC RADIOSURGERY IN THE MANAGEMENT OF BRAIN METASTASES: AN INSTITUTIONAL RETROSPECTIVE ANALYSIS OF SURVIVAL** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Frazier, J. L., Batra, S., Kapor, S., Vellimana, A., Gandhi, R., Carson, K. A., Shokek, O., Lim, M., Kleinberg, L., Rigamonti, D.
2010; 76 (5): 1486–92
- **Stereotactic Radiosurgery for Spine Tumors: Review of Current Literature** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Hsu, W., Nguyen, T., Kleinberg, L., Ford, E. C., Rigamonti, D., Gokaslan, Z. L., Lim, M.
2010; 88 (5): 315–21
- **Biologic Principles of Immunotherapy for Malignant Gliomas** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Han, S. J., Kaur, G., Yang, I., Lim, M.
2010; 21 (1): 1-+
- **Immunotherapy Preface** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Yang, I., Lim, M.
2010; 21 (1): XV
- **Mechanisms of Local Immunoresponse in Glioma** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Albesiano, E., Han, J. E., Lim, M.
2010; 21 (1): 17-+
- **Immunotherapy Combined with Chemotherapy in the Treatment of Tumors** *NEUROSURGERY CLINICS OF NORTH AMERICA*
Frazier, J. L., Han, J. E., Lim, M., Olivi, A.
2010; 21 (1): 187-+
- **Radiosurgery for glomus jugulare: history and recent progress** *NEUROSURGICAL FOCUS*
Guss, Z. D., Batra, S., Li, G., Chang, S. D., Parsa, A. T., Rigamonti, D., Kleinberg, L., Lim, M.
2009; 27 (6)
- **A NEUROSURGEON'S GUIDE TO STEM CELLS, CANCER STEM CELLS, AND BRAIN TUMOR STEM CELLS** *NEUROSURGERY*
Cheshier, S. H., Kalani, M. Y., Lim, M., Ailles, L., Huhn, S. L., Weissman, I. L.
2009; 65 (2): 237-249
- **NONISOCENTRIC RADIOSURGICAL RHIZOTOMY FOR TRIGEMINAL NEURALGIA** *NEUROSURGERY*
Adler, J. R., Bower, R., Gupta, G., Lim, M., Efron, A., Gibbs, I. C., Chang, S. D., Soltys, S. G.
2009; 64 (2): A84-A90
- **A VIRTUAL FRAME SYSTEM FOR STEREOTACTIC RADIOSURGERY PLANNING** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Ford, E., Purger, D., Tryggstad, E., McNutt, T., Christodouleas, J., Rigamonti, D., Shokek, O., Won, S., Zhou, J., Lim, M., Wong, J., Kleinberg, L.
2008; 72 (4): 1244-1249
- **Suprasellar giant cell ependymoma: a rare neoplasm in a unique location** *HUMAN PATHOLOGY*
Sangoi, A. R., Lim, M., Dulai, M. S., Vogel, H., Chang, S. D.
2008; 39 (9): 1396-1401
- **Cyberknife radiosurgery for trigeminal neuralgia treatment: A preliminary multicenter experience** *NEUROSURGERY*
Villavicencio, A. T., Lim, M., Burneikiene, S., Romanelli, P., Adler, J. R., McNeely, L., Chang, S. D., Fariselli, L., McIntyre, M., Bower, R., Broggi, G., Thramann, J. J.
2008; 62 (3): 647-654
- **Radiosurgery for glomus Jugulare tumors** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Lim, M., Bower, R., Nangiana, J. S., Adler, J. R., Chang, S. D.
2007; 6 (5): 419-423

- **CyberKnife radiosurgical rhizotomy for the treatment of atypical trigeminal nerve pain.** *Neurosurgical focus*
Patil, C. G., Veeravagu, A., Bower, R. S., Li, G., Chang, S. D., Lim, M., Adler, J. R.
2007; 23 (6): E9-?
- **Irradiation of glomus jugulare tumors: a historical perspective.** *Neurosurgical focus*
Li, G., Chang, S., Adler, J. R., Lim, M.
2007; 23 (6): E13-?
- **Anti-angiogenic targeted therapy in a rat model for glioblastoma multiforme tumor with temporal MRI and pet studies** *7th Congress of the European-Association-for-Neuro-Oncology (EANO)*
Lim, M., Yang, Y., Sims, L., Choi, S., Wang, Y., Guccione, S.
OXFORD UNIV PRESS INC.2006: 415–15
- **Growth of human glioblastoma multiforme and medulloblastoma tumors in RAG 2 and common cytokine receptor gamma chain double knockout mice: A new model for in vivo study of GBM**
Cheshier, S. H., Ailles, L., Tse, V., Skirboll, S., Huhn, S., Weissman, I.
DUKE UNIV PRESS.2006: 471
- **Flow cytometric analysis of neural stem cell markers on pediatric brain tumors** *7th Congress of the European-Association-for-Neuro-Oncology (EANO)*
Cheshier, S. H., Ailles, L. E., Lim, M., Laddis, P., Tse, V., Weissman, I. L., Huhn, S.
OXFORD UNIV PRESS INC.2006: 466–66
- **CD90 expression segregates tumor-sphere forming cells in human glioblastoma multiforme** *7th Congress of the European-Association-for-Neuro-Oncology (EANO)*
Cheshier, S. H., Ailles, L., Higgins, D. M., Lim, M., Kalani, M. Y., Bababegy, S., Weissman, I. L.
OXFORD UNIV PRESS INC.2006: 471–71
- **New vessel formation in the central nervous system during tumor growth, vascular malformations, and Moyamoya** *CURRENT NEUROVASCULAR RESEARCH*
Lim, M., Cheshier, S., Steinberg, G. K.
2006; 3 (3): 237-245
- **Phase I/II trial of an allogeneic cellular immunotherapy in hormone-naive prostate cancer** *CLINICAL CANCER RESEARCH*
Simons, J. W., Carducci, M. A., Mikhak, B., Lim, M., Biedrzycki, B., Borellini, F., Clift, S. M., Hege, K. M., Ando, D. G., Piantadosi, S., Mulligan, R., Nelson, W. G.
2006; 12 (11): 3394–3401
- **Stereotactic radiosurgery using CT cisternography and non-isocentric planning for the treatment of trigeminal neuralgia.** *Computer aided surgery*
Lim, M., Cotrutz, C., Romanelli, P., Schaal, D., Gibbs, I., Chang, S. D., Adler, J. R.
2006; 11 (1): 11-20
- **Cerebral perfusion imaging in vasospasm.** *Neurosurgical focus*
Lad, S. P., Guzman, R., Kelly, M. E., Li, G., Lim, M., Lovbald, K., Steinberg, G. K.
2006; 21 (3): E7-?
- **CyberKnife radiosurgery for extremity schwannomas: Technical note and case report** *STEREOTACTIC AND FUNCTIONAL NEUROSURGERY*
Lim, M., Adler, J. R.
2006; 84 (2-3): 60-63
- **Visual preservation after curative multi-modality treatment of occipital lobe arteriovenous malformations** *NEUROSURGERY*
Sinclair, J., Marks, M. P., Levy, R. P., Adler, J. R., Chang, S. D., Lopez, J. R., Do, H. M., Bell-Stephens, T. E., Lim, M., Steinberg, G. K.
2005; 57 (4): 655-666
- **alpha(v)beta(3) integrin in central nervous system tumors** *HUMAN PATHOLOGY*
Lim, M., Guccione, S., Haddix, T., Sims, L., Cheshier, S., Chu, P., Vogel, H., Harsh, G.
2005; 36 (6): 665-669
- **CyberKnife radiosurgery for idiopathic trigeminal neuralgia.** *Neurosurgical focus*

-
- Lim, M., Villavicencio, A. T., Burneikiene, S., Chang, S. D., Romanelli, P., McNeely, L., McIntyre, M., Thramann, J. J., Adler, J. R.
2005; 18 (5): E9-?
- **Characterization of the integrin alpha v beta 3 in arteriovenous malformations and cavernous malformations** *CEREBROVASCULAR DISEASES*
Lim, M., Haddix, T., Harsh, G. R., Vogel, H., Steinberg, G. K., Guccione, S.
2005; 20 (1): 23-27
 - **Efficacy and safety of stereotactic radiosurgery for glomus jugulare tumors.** *Neurosurgical focus*
Lim, M., Gibbs, I. C., Adler, J. R., Chang, S. D.
2004; 17 (2): E11-?
 - **The efficacy of linear accelerator stereotactic radiosurgery in treating glomus jugulare tumors** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
Lim, M., Gibbs, I. C., Adler, J. R., Martin, D. P., Chang, S. D.
2003; 2 (3): 261-265
 - **Reversible posterior leukoencephalopathy occurring during resection of a posterior fossa tumor: Case report and review of the literature** *NEUROSURGERY*
Moriarity, J. L., Lim, M., Storm, P. B., Beauchamp, N. J., Olivi, A.
2001; 49 (5): 1237-39
 - **Overexpression of hypoxia-inducible factor 1 alpha in common human cancers and their metastases** *CANCER RESEARCH*
Zhong, H., De Marzo, A. M., Laughner, E., Lim, M., Hilton, D. A., Zagzag, D., Buechler, P., Isaacs, W. B., Semenza, G. L., Simons, J. W.
1999; 59 (22): 5830-35
 - **Induction of immunity to prostate cancer antigens: Results of a clinical trial of vaccination with irradiated autologous prostate tumor cells engineered to secrete granulocyte-macrophage colony-stimulating factor using ex vivo gene transfer** *CANCER RESEARCH*
Simons, J. W., Mikhak, B., Chang, J. F., DeMarzo, A. M., Carducci, M. A., Lim, M., Weber, C. E., Baccala, A. A., Goemann, M. A., Clift, S. M., Ando, D. G., Levitsky, H. I., Cohen, et al
1999; 59 (20): 5160-68