



Michael Lim, M.D.

Professor of Neurosurgery and, by courtesy, of Radiation Oncology (Radiation Therapy) and of Medicine (Oncology)

CLINICAL OFFICES

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

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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.

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 200 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.

CLINICAL FOCUS

- Neurosurgery

ACADEMIC APPOINTMENTS

- Professor, Neurosurgery
- Professor (By courtesy), Radiation Oncology - Radiation Therapy
- Professor (By courtesy), Medicine - Oncology

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

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

PROFESSIONAL EDUCATION

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

LINKS

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

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Rohit Verma

Publications

PUBLICATIONS

- **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
- **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., Bettgowda, 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
 - **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
 - **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
 - **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
 - **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
 - **Reprogramming transcription factors Oct4 and Sox2 induces a BRD-dependent immunosuppressive transcriptome in GBM-propagating cells.** *Cancer research*
Laterra, 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
 - **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
 - **EFFICACY OF ANTICONVULSANT THERAPY IN GLIOMA PATIENTS**
Medikonda, R., Patel, K., Saleh, L., Srivastava, S., Jackson, C., Mohan, A., Shah, P., Weingart, J., Bettgowda, 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., Bettgowda, 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., Bettgowda, 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., Elisseff, 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
 - **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
 - **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)
 - **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., Bettgowda, 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., Spoleti, N., Mukherjee, D., Bettgowda, 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
 - **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
- **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
 - **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., Mellingerhoff, et al
LIPPINCOTT WILLIAMS & WILKINS.2020
 - **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
 - **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
 - **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., Bettegowda, C., Lee, J. K., Lim, et al
2020; 132 (4): 1227–33
 - **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
 - **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., Sciubba, 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
 - **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., Asnaghi, 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., Spoletti, N., Redmond, K. J., Lim, M., Bettgowda, 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., Laterra, J., Couzi, R., Lim, M., Holdhoff, M.
2020; 13 (2): 508–14
- **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., Stavrakaki, 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
- **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
- **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
- **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., Bettgowda, 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., Shpitsner, 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

● **Mechanisms of immunotherapy resistance: lessons from glioblastoma** *NATURE IMMUNOLOGY*

Jackson, C. M., Choi, J., Lim, M.

2019; 20 (9): 1100–1109

● **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

● **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

● **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

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