



Antonio Omuro, MD

Joseph D. Grant Professor
Neurology

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Antonio M. Omuro, MD, FAAN, is the Chair of the Department of Neurology and Neurological Sciences at Stanford University School of Medicine.

Dr. Omuro is an internationally renowned neurologist and neuro-oncologist. Before assuming his role at Stanford, he held notable leadership positions at prestigious institutions including Yale University and Memorial Sloan Kettering Cancer Center. His research endeavors are concentrated on clinical and translational studies, where he collaborates closely with basic scientists to pioneer innovative therapies for challenging neuro-oncologic diseases such as gliomas and primary CNS lymphomas. He is also a highly esteemed educator and practicing clinician, delivering state-of-the-art and compassionate care to patients with brain tumors and neurological complications of cancers.

CLINICAL FOCUS

- Neuro-Oncology

ACADEMIC APPOINTMENTS

- Professor, Neurology
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Fellow, American Academy of Neurology (AAN) (2022)
- Master of Arts, Privatum (Honorary Degree), Yale University (2018)
- Transforming Leaders Program, AAN (2018)
- Young Investigator Award, Society for Neuro-Oncology/World Federation of Neuro-Oncology Societies (2013)
- Cancer Clinical Investigator Team Leadership Award, National Institutes of Health (NIH)/National Cancer Institute (NCI) (2011)
- Preuss Award in Clinical Neuro-Oncology, AAN (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society of Clinical Oncology (2008 - present)
- Member, European Society of Medical Oncology (ESMO) (2006 - present)
- Member, Society for Neuro-Oncology (SNO) (2004 - present)
- Member, American Association for Cancer Research (AACR) (2004 - present)
- Member, American Academy of Neurology (AAN) (1999 - present)

PROFESSIONAL EDUCATION

- Fellowship: Memorial Sloan Kettering Cancer Center (2004) NY
- Residency: University of Sao Paulo School of Medicine (2000) Brazil
- Residency: University of Sao Paulo School of Medicine (1997) Brazil
- Medical Education: University of Sao Paulo School of Medicine (1994) Brazil

Publications

PUBLICATIONS

- **Long-term Outcomes in Primary CNS Lymphoma Following R-MVP and High Dose Chemotherapy With Autologous Hematopoietic Stem Cell Transplant.** *Neurology*
Therkelsen, K. E., Schaff, L. R., Nandakumar, S., Omuro, A. M., DeAngelis, L. M., Grommes, C.
2023
- **Comparing Detection Schemes for Adversarial Images against Deep Learning Models for Cancer Imaging.** *Cancers*
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2023; 15 (5)
- **Multicenter Phase II Trial of the PARP Inhibitor Olaparib in Recurrent IDH1- and IDH2-mutant Glioma.** *Cancer research communications*
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2023; 3 (2): 192-201
- **Top Advances in Neuro-Oncology**
M, B., A, O.
Cancer.
2023
- **Real-time PACS-integrated longitudinal brain metastasis tracking tool provides comprehensive assessment of treatment response to radiosurgery.** *Neuro-oncology advances*
Cassinelli Petersen, G., Bousabarah, K., Verma, T., von Reppert, M., Jekel, L., Gordem, A., Jang, B., Merkaj, S., Abi Fadel, S., Owens, R., Omuro, A., Chiang, V., Ikuta, et al
2022; 4 (1): vdac116
- **Identifying clinically applicable machine learning algorithms for glioma segmentation: recent advances and discoveries.** *Neuro-oncology advances*
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- **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
- **Immune-checkpoint inhibitors for glioblastoma: what have we learned?** *Arquivos de neuro-psiquiatria*
Omuro, A.
2022; 80 (5 Suppl 1): 266-269

- **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
- **Phase I/Randomized phase II trial of TRC105 plus bevacizumab versus bevacizumab in recurrent glioblastoma: North Central Cancer Treatment Group N1174 (Alliance).** *Neuro-oncology advances*
Galanis, E., Anderson, S. K., Twohy, E., Butowski, N. A., Hormigo, A., Schiff, D., Omuro, A., Jaeckle, K. A., Kumar, S., Kaufmann, T. J., Geyer, S., Kumthekar, P. U., Campian, et al
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- **Machine Learning in Differentiating Gliomas from Primary CNS Lymphomas: A Systematic Review, Reporting Quality, and Risk of Bias Assessment.** *AJNR. American journal of neuroradiology*
Cassinelli Petersen, G. I., Shatalov, J., Verma, T., Brim, W. R., Subramanian, H., Brackett, A., Bahar, R. C., Merkaj, S., Zeevi, T., Staib, L. H., Cui, J., Omuro, A., Bronen, et al
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- **Machine Learning Applications for Differentiation of Glioma from Brain Metastasis-A Systematic Review.** *Cancers*
Jekel, L., Brim, W. R., von Reppert, M., Staib, L., Cassinelli Petersen, G., Merkaj, S., Subramanian, H., Zeevi, T., Payabvash, S., Bousabarah, K., Lin, M., Cui, J., Brackett, et al
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- **Using Adversarial Images to Assess the Robustness of Deep Learning Models Trained on Diagnostic Images in Oncology.** *JCO clinical cancer informatics*
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2022; 6: e2100170
- **Nivolumab plus radiotherapy with or without temozolomide in newly diagnosed glioblastoma: Results from exploratory phase I cohorts of CheckMate 143.** *Neuro-oncology advances*
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- **T cell dysfunction in glioblastoma: a barrier and an opportunity for the development of successful immunotherapies.** *Current opinion in neurology*
Jansen, J. A., Omuro, A., Lucca, L. E.
2021; 34 (6): 827-833
- **Erdheim-Chester Disease Presenting With Diplopia: A Challenging Diagnosis With Effective Treatment.** *Journal of neuro-ophthalmology : the official journal of the North American Neuro-Ophthalmology Society*
Tavakoli, M., Roghaee, S., Gunturu, M., Omuro, A. M., Lam, B. L., Mendoza-Santiesteban, C. E.
2021; 41 (3): e324-e325
- **Sporadic adamantinomatous craniopharyngioma with double-hit somatic APC mutations.** *Neuro-oncology advances*
Hong, C. S., Omuro, A., An, Y., Inzucchi, S. E., Kohli, A. A., McGuone, D., Vining, E. M., Omay, S. B., Erson-Omay, E. Z.
2021; 3 (1): vdab124
- **A Shortage of Neurologists - We Must Act Now: A Report From the AAN 2019 Transforming Leaders Program.** *Neurology*
Majersik, J. J., Ahmed, A., Chen, I. A., Shill, H., Hanes, G. P., Pelak, V. S., Hopp, J. L., Omuro, A., Kluger, B., Leslie-Mazwi, T.
2021; 96 (24): 1122-1134
- **Comparison of radiomic feature aggregation methods for patients with multiple tumors.** *Scientific reports*
Chang, E., Joel, M. Z., Chang, H. Y., Du, J., Khanna, O., Omuro, A., Chiang, V., Aneja, S.
2021; 11 (1): 9758
- **A phase II study of dose-dense temozolomide and lapatinib for recurrent low-grade and anaplastic supratentorial, infratentorial, and spinal cord ependymoma.** *Neuro-oncology*
Gilbert, M. R., Yuan, Y., Wu, J., Mendoza, T., Vera, E., Omuro, A., Lieberman, F., Robins, H. I., Gerstner, E. R., Wu, J., Wen, P. Y., Mikkelsen, T., Aldape, et al
2021; 23 (3): 468-477
- **Genetic characterization of an aggressive optic nerve pilocytic glioma.** *Brain tumor pathology*
Hong, C. S., Floney, G., Fisayo, A., An, Y., Gopal, P. P., Omuro, A., Pointdujour-Lim, R., Erson-Omay, E. Z., Omay, S. B.
2021; 38 (1): 59-63

- **Editorial: Advances in Neuro-Oncology: stepping in the right direction**
A, O.
Opin Neurol.
2021
- **Consolidation Therapy in Primary Central Nervous System Lymphoma.** *Current treatment options in oncology*
Kim, P., Omuro, A.
2020; 21 (9): 74
- **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
- **Cerebrospinal fluid circulating tumor cells as a quantifiable measurement of leptomeningeal metastases in patients with HER2 positive cancer.** *Journal of neuro-oncology*
Malani, R., Fleisher, M., Kumthekar, P., Lin, X., Omuro, A., Groves, M. D., Lin, N. U., Melisko, M., Lassman, A. B., Jeyapalan, S., Seidman, A., Skakodub, A., Boire, et al
2020; 148 (3): 599-606
- **Erdheim-Chester disease among neuroinflammatory syndromes: the case for precision medicine.** *Neurology(R) neuroimmunology & neuroinflammation*
de la Fuente, M. I., Rosenblum, M. K., Diamond, E. L., Tabar, V. S., Omuro, A.
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- **Phase I clinical trial of temsirolimus and perifosine for recurrent glioblastoma.** *Annals of clinical and translational neurology*
Kaley, T. J., Panageas, K. S., Pentsova, E. I., Mellingshoff, I. K., Nolan, C., Gavrilovic, I., DeAngelis, L. M., Abrey, L. E., Holland, E. C., Omuro, A., Lacouture, M. E., Ludwig, E., Lassman, et al
2020; 7 (4): 429-436
- **Meningiomas - Comprehensive Strategies for Management**
J, M., A, O.
2020
- **Complications associated with immunotherapy for brain metastases.** *Current opinion in neurology*
Tran, T. T., Jilaveanu, L. B., Omuro, A., Chiang, V. L., Huttner, A., Kluger, H. M.
2019; 32 (6): 907-916
- **Applications of artificial intelligence in neuro-oncology.** *Current opinion in neurology*
Aneja, S., Chang, E., Omuro, A.
2019; 32 (6): 850-856
- **Genomic Correlates of Disease Progression and Treatment Response in Prospectively Characterized Gliomas.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Jonsson, P., Lin, A. L., Young, R. J., DiStefano, N. M., Hyman, D. M., Li, B. T., Berger, M. F., Zehir, A., Ladanyi, M., Solit, D. B., Arnold, A. G., Stadler, Z. K., Mandelker, et al
2019; 25 (18): 5537-5547
- **Longitudinal cognitive assessment in patients with primary CNS lymphoma treated with induction chemotherapy followed by reduced-dose whole-brain radiotherapy or autologous stem cell transplantation.** *Journal of neuro-oncology*
Correa, D. D., Braun, E., Kryza-Lacombe, M., Ho, K. W., Reiner, A. S., Panageas, K. S., Yahalom, J., Sauter, C. S., Abrey, L. E., DeAngelis, L. M., Omuro, A.
2019; 144 (3): 553-562
- **Sequencing and curation strategies for identifying candidate glioblastoma treatments.** *BMC medical genomics*
Frank, M. O., Koyama, T., Rhrissorrakrai, K., Robine, N., Utro, F., Emde, A. K., Chen, B. J., Arora, K., Shah, M., Geiger, H., Felice, V., Dikoglu, E., Rahman, et al
2019; 12 (1): 56
- **Bilateral radiation therapy followed by methotrexate-based chemotherapy for primary vitreoretinal lymphoma.** *American journal of hematology*
de la Fuente, M. I., Alderuccio, J. P., Reis, I. M., Omuro, A., Markoe, A., Echegaray, J. J., Davis, J. L., Harbour, J. W., Lossos, I. S.
2019; 94 (4): 455-460

- **Buparlisib in Patients With Recurrent Glioblastoma Harboring Phosphatidylinositol 3-Kinase Pathway Activation: An Open-Label, Multicenter, Multi-Arm, Phase II Trial.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Wen, P. Y., Touat, M., Alexander, B. M., Mellingshoff, I. K., Ramkissoon, S., McCluskey, C. S., Pelton, K., Haidar, S., Basu, S. S., Gaffey, S. C., Brown, L. E., Martinez-Ledesma, J. E., Wu, et al
2019; 37 (9): 741-750
- **Residual Tumor Volume, Cell Volume Fraction, and Tumor Cell Kill During Fractionated Chemoradiation Therapy of Human Glioblastoma using Quantitative Sodium MR Imaging.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Thulborn, K. R., Lu, A., Atkinson, I. C., Pauliah, M., Beal, K., Chan, T. A., Omuro, A., Yamada, J., Bradbury, M. S.
2019; 25 (4): 1226-1232
- **Tumor mutational load predicts survival after immunotherapy across multiple cancer types.** *Nature genetics*
Samstein, R. M., Lee, C. H., Shoushtari, A. N., Hellmann, M. D., Shen, R., Janjigian, Y. Y., Barron, D. A., Zehir, A., Jordan, E. J., Omuro, A., Kaley, T. J., Kendall, S. M., Motzer, et al
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- **Imaging biomarkers for brain metastases: more than meets the eye.**
S, A., A, O.
Neuro Oncol.
2019
- **Phase 1 study of pomalidomide and dexamethasone for relapsed/refractory primary CNS or vitreoretinal lymphoma.** *Blood*
Tun, H. W., Johnston, P. B., DeAngelis, L. M., Atherton, P. J., Pederson, L. D., Koenig, P. A., Reeder, C. B., Omuro, A. M., Schiff, D., O'Neill, B., Pulido, J., Jaekle, K. A., Grommes, et al
2018; 132 (21): 2240-2248
- **Multicenter Phase IB Trial of Carboxamidotriazole Orotate and Temozolomide for Recurrent and Newly Diagnosed Glioblastoma and Other Anaplastic Gliomas.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Omuro, A., Beal, K., McNeill, K., Young, R. J., Thomas, A., Lin, X., Terziev, R., Kaley, T. J., DeAngelis, L. M., Daras, M., Gavrilovic, I. T., Mellingshoff, I., Diamond, et al
2018; 36 (17): 1702-1709
- **In Vivo PET Assay of Tumor Glutamine Flux and Metabolism: In-Human Trial of 18F-(2S,4R)-4-Fluoroglutamine.** *Radiology*
Dunphy, M. P., Harding, J. J., Venneti, S., Zhang, H., Burnazi, E. M., Bromberg, J., Omuro, A. M., Hsieh, J. J., Mellingshoff, I. K., Staton, K., Pressl, C., Beattie, B. J., Zanzonico, et al
2018; 287 (2): 667-675
- **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., Zwirtes, R., Strauss, L., Paliwal, et al
2018; 20 (5): 674-86
- **Overall survival in patients with glioblastoma before and after bevacizumab approval.** *Current medical research and opinion*
Johnson, D. R., Omuro, A. M., Ravelo, A., Sommer, N., Guerin, A., Ionescu-Ittu, R., Shi, S., Macalalad, A., Uhm, J. H.
2018; 34 (5): 813-820
- **Radiographic patterns of recurrence and pathologic correlation in malignant gliomas treated with bevacizumab.** *CNS oncology*
Thomas, A., Rosenblum, M., Karimi, S., DeAngelis, L. M., Omuro, A., Kaley, T. J.
2018; 7 (1): 7-13
- **Chemotherapy for Primary CNS Lymphomas** *Handbook of Brain Tumor Chemotherapy, Molecular Therapeutics, and Immunotherapy, 2nd Edition*
M, D., A, O.
2018
- **Multicenter, Phase 1, Dose Escalation Study of Hypofractionated Stereotactic Radiation Therapy With Bevacizumab for Recurrent Glioblastoma and Anaplastic Astrocytoma.** *International journal of radiation oncology, biology, physics*
Clarke, J., Neil, E., Terziev, R., Gutin, P., Barani, I., Kaley, T., Lassman, A. B., Chan, T. A., Yamada, J., DeAngelis, L., Ballangrud, A., Young, R., Panageas, et al
2017; 99 (4): 797-804

- **Multicenter phase II study of temozolomide and myeloablative chemotherapy with autologous stem cell transplant for newly diagnosed anaplastic oligodendroglioma.** *Neuro-oncology*
Thomas, A. A., Abrey, L. E., Terziev, R., Raizer, J., Martinez, N. L., Forsyth, P., Paleologos, N., Matasar, M., Sauter, C. S., Moskowitz, C., Nimer, S. D., DeAngelis, L. M., Kaley, et al
2017; 19 (10): 1380-1390
- **Cerebrospinal fluid circulating tumor cells: a novel tool to diagnose leptomeningeal metastases from epithelial tumors.** *Neuro-oncology*
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- **Ibrutinib Unmasks Critical Role of Bruton Tyrosine Kinase in Primary CNS Lymphoma.** *Cancer discovery*
Grommes, C., Pastore, A., Palaskas, N., Tang, S. S., Campos, C., Scharzt, D., Codega, P., Nichol, D., Clark, O., Hsieh, W. Y., Rohle, D., Rosenblum, M., Viale, et al
2017; 7 (9): 1018-1029
- **Mutational landscape of metastatic cancer revealed from prospective clinical sequencing of 10,000 patients** *NATURE MEDICINE*
Zehir, A., Benayed, R., Shah, R. H., Syed, A., Middha, S., Kim, H. R., Srinivasan, P., Gao, J., Chakravarty, D., Devlin, S. M., Hellmann, M. D., Barron, D. A., Schram, et al
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- **Dynamic contrast-enhanced MRI perfusion for differentiating between melanoma and lung cancer brain metastases.** *Cancer medicine*
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2017; 6 (4): 761-767
- **Patterns of response and relapse in primary CNS lymphomas after first-line chemotherapy: imaging analysis of the ANOCEF-GOELAMS prospective randomized trial.** *Neuro-oncology*
Tabouret, E., Houillier, C., Martin-Duverneuil, N., Blonski, M., Soussain, C., Ghesquière, H., Houot, R., Larrieu, D., Soubeyran, P., Gressin, R., Gyan, E., Chinot, O., Taillandier, et al
2017; 19 (3): 422-429
- **Phase I trial of aflibercept (VEGF trap) with radiation therapy and concomitant and adjuvant temozolomide in patients with high-grade gliomas.** *Journal of neuro-oncology*
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- **Diagnostic Accuracy of T1-Weighted Dynamic Contrast-Enhanced-MRI and DWI-ADC for Differentiation of Glioblastoma and Primary CNS Lymphoma.** *AJNR. American journal of neuroradiology*
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2017; 38 (3): 485-491
- **A Comprehensive Assessment of Toxicities in Patients with Central Nervous System Lymphoma Undergoing Autologous Stem Cell Transplantation Using Thiotepa, Busulfan, and Cyclophosphamide Conditioning.** *Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation*
Scordo, M., Bhatt, V., Hsu, M., Omuro, A. M., Matasar, M. J., DeAngelis, L. M., Dahi, P. B., Moskowitz, C. H., Giralt, S. A., Sauter, C. S.
2017; 23 (1): 38-43
- **OncoKB: A Precision Oncology Knowledge Base** *JCO PRECISION ONCOLOGY*
Chakravarty, D., Gao, J., Phillips, S., Kundra, R., Zhang, H., Wang, J., Rudolph, J. E., Yaeger, R., Soumerai, T., Nissan, M. H., Chang, M. T., Chandraratnam, S., Traina, et al
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- **Molecular and Clinical Effects of Notch Inhibition in Glioma Patients: A Phase 0/I Trial.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
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- **Second-opinion interpretations of neuroimaging studies by oncologic neuroradiologists can help reduce errors in cancer care.** *Cancer*
Hatzoglou, V., Omuro, A. M., Haque, S., Khakoo, Y., Ganly, I., Oh, J. H., Shukla-Dave, A., Fatovic, R., Gaal, J., Holodny, A. I.
2016; 122 (17): 2708-14

- **Primary Oculocerebral Lymphoma: MTX Polychemotherapy Alone on Intraocular Disease Control.** *Ophthalmology*
Nguyen, D. T., Houillier, C., Choquet, S., Cassoux, N., Soussain, C., Le Cossec, C., Legarf-Tavernier, M., Costopoulos, M., LeHoang, P., Bodaghi, B., Omuro, A., Hoang-Xuan, K., Touitou, et al
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- **High-dose methotrexate-based chemotherapy as treatment for histiocytic sarcoma of the central nervous system.** *Leukemia & lymphoma*
Curry, R. C., Faivre, G., Akkari, L., Joyce, J. A., Lin, O., Rosenblum, M., Diamond, E. L., Fisher, R., Omuro, A.
2016; 57 (8): 1961-4
- **Therapeutic Impact of Cytoreductive Surgery and Irradiation of Posterior Fossa Ependymoma in the Molecular Era: A Retrospective Multicohort Analysis** *JOURNAL OF CLINICAL ONCOLOGY*
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2016; 34 (21): 2468-?
- **Evaluating Cancer of the Central Nervous System Through Next-Generation Sequencing of Cerebrospinal Fluid.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
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2016; 34 (20): 2404-15
- **A prospective trial of dynamic contrast-enhanced MRI perfusion and fluorine-18 FDG PET-CT in differentiating brain tumor progression from radiation injury after cranial irradiation.** *Neuro-oncology*
Hatzoglou, V., Yang, T. J., Omuro, A., Gavrilovic, I., Ulaner, G., Rubel, J., Schneider, T., Woo, K. M., Zhang, Z., Peck, K. K., Beal, K., Young, R. J.
2016; 18 (6): 873-80
- **Orally administered colony stimulating factor 1 receptor inhibitor PLX3397 in recurrent glioblastoma: an Ivy Foundation Early Phase Clinical Trials Consortium phase II study.** *Neuro-oncology*
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2016; 18 (4): 557-64
- **Integration of 2-hydroxyglutarate-proton magnetic resonance spectroscopy into clinical practice for disease monitoring in isocitrate dehydrogenase-mutant glioma.** *Neuro-oncology*
de la Fuente, M. I., Young, R. J., Rubel, J., Rosenblum, M., Tisnado, J., Briggs, S., Arevalo-Perez, J., Cross, J. R., Campos, C., Straley, K., Zhu, D., Dong, C., Thomas, et al
2016; 18 (2): 283-90
- **Long-term survival in AIDS-related primary central nervous system lymphoma.** *Neuro-oncology*
Gupta, N. K., Nolan, A. n., Omuro, A. n., Reid, E. G., Wang, C. C., Mannis, G. n., Jaglal, M. n., Chavez, J. C., Rubinstein, P. G., Griffin, A. n., Abrams, D. I., Hwang, J. n., Kaplan, et al
2016
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