

Stanford



Michelle Monje

Milan Gambhir Professor of Pediatric Neuro-Oncology and Professor, by courtesy, of Neurosurgery, of Pediatrics, of Pathology and of Psychiatry and Behavioral Sciences
Neurology

CLINICAL OFFICE (PRIMARY)

- **Division of Child Neurology**
265 Campus Dr Rm G3077
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ACADEMIC CONTACT INFORMATION

- **Administrative Assistant**
Mei-Ling Li
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Bio

CLINICAL FOCUS

- Neuro Oncology
- Neurology with Special Qualifications in Child Neurology

ACADEMIC APPOINTMENTS

- Professor, Neurology
- Professor (By courtesy), Neurosurgery
- Professor (By courtesy), Pediatrics
- Professor (By courtesy), Pathology
- Professor (By courtesy), Psychiatry and Behavioral Sciences
- Member, Bio-X
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Jonathan Kraft Prize for Excellence in Cancer Research, Massachusetts General Hospital (2023)
- Paul Marks Prize in Cancer Research, The Marks Foundation and MSKCC (2023)
- Richard Lounsbery Award, National Academy of Science (2023)
- Investigator, Howard Hughes Medical Institute (2021-)
- MacArthur Fellowship, MacArthur Foundation (2021)
- Member, National Academy of Medicine (2021)

- Presidential Early Career Award for Science and Engineering (PECASE), NIH, White House (2019)
- NIH Director's Pioneer Award, NIH (2018-2023)
- Neuro-Oncology Investigator Award, American Academy of Neurology (2017)
- New Faculty Physician Scientist Translational Research Award, California Institute of Regenerative Medicine (CIRM) (2013 - 2018)
- 'A' Award, Alex's Lemonade Stand Foundation (2012-2015)
- Basic Science IV Award, California Institute of Regenerative Medicine (CIRM) (2012 - 2015)
- Peter A. Steck Memorial Award, Pediatric Brain Tumor Foundation (2011)
- K08 Mentored Clinical Scientist Career Development Award, National Institutes of Neurological Disorders and Stroke (2010 - 2015)
- Young Investigator Award, Hagerty Foundation for Glioma Research (2006)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Institutional PI/co-PI, Pediatric Brain Tumor Consortium (PBTC) (2012 - present)
- Scientific Advisory Board, Alex's Lemonade Stand Foundation (2018 - present)
- Editorial Advisory Board, Cancer Cell (2020 - present)
- Editorial Advisory Board, Neuron (2020 - present)

PROFESSIONAL EDUCATION

- Fellowship: Stanford Hospital and Clinics Neuro-Oncology Fellowship (2010) CA
- Internship: Stanford University Internal Medicine Residency (2005) CA
- Medical Education: Stanford University School of Medicine (2004) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2008)
- Board Certification: Neuro-Oncology, United Council for Neurologic Subspecialties (2013)
- Residency: Massachusetts General Hospital (2008) MA
- Residency: Brigham and Women's Hospital Harvard Medical School (2008) MA
- Subspecialty Board Certification, United Council for Neurological Subspecialties , Neuro-Oncology (2013)
- PhD, Stanford University , Neuroscience (2004)
- MD, Stanford University (2004)

LINKS

- Monje Lab: <http://neurology.stanford.edu/labs/monjelab>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Much of brain development occurs after birth. Maturation of complex neural circuitry necessary for high-level cognitive and motor functions occurs throughout childhood and young adulthood. Central to the process of developing or strengthening a functional neural circuit is the generation of new glial cells for neuronal support, synapse formation and myelination. In some brain regions, such as the hippocampus, new neuron production occurs throughout postnatal life and is believed to subserve normal memory function.

The Monje Lab studies the molecular and cellular mechanisms of postnatal neurodevelopment. This includes microenvironmental influences on neural precursor cell fate choice in normal neurodevelopment and in disease states. Areas of emphasis include neuronal instruction of gliogenesis, cellular contributions to the neurogenic

and gliogenic signaling microenvironment, molecular determinants of neural precursor cell fate, and the role of neural precursor cells in oncogenesis and repair mechanisms. As a practicing neurologist and Neuro-oncologist, Dr Monje is particularly interested in the roles for neural precursor cell function and dysfunction in the origins of pediatric brain tumors and the consequences of cancer treatment. As a paradigm of pediatric gliogenesis, we have been focusing on brainstem tumors, whose spatial and temporal specificity bespeak an underlying developmental cause.

CLINICAL TRIALS

- GD2 CAR T Cells in Diffuse Intrinsic Pontine Gliomas(DIPG) & Spinal Diffuse Midline Glioma(DMG), Recruiting
- INCB7839 in Treating Children With Recurrent/Progressive High-Grade Gliomas, Recruiting
- Pembrolizumab in Treating Younger Patients With Recurrent, Progressive, or Refractory High-Grade Gliomas, Diffuse Intrinsic Pontine Gliomas, Hypermethylated Brain Tumors, Ependymoma or Medulloblastoma, Recruiting
- Testing the Safety and Tolerability of CX-4945 in Patients With Recurrent Medulloblastoma Who May or May Not Have Surgery, Recruiting
- Volitinib in Treating Patients With Recurrent or Refractory Primary CNS Tumors, Recruiting
- A Clinical and Molecular Risk-Directed Therapy for Newly Diagnosed Medulloblastoma, Not Recruiting
- Bevacizumab and Lapatinib in Children With Recurrent or Refractory Ependymoma, Not Recruiting
- Chemotherapy Followed by Radiation Therapy in Treating Younger Patients With Newly Diagnosed Localized Central Nervous System Germ Cell Tumors, Not Recruiting
- FLT-PET Imaging of Brain Tumors in Children, Not Recruiting
- Long-term Cognitive, Neuropsychiatric and Functional Outcomes in Adults Who Have Received Chimeric Antigen-Receptor T-Cell (CAR-T) Therapy for Aggressive Lymphoma at Stanford, Not Recruiting
- Methylphenidate HCl or Modafinil in Treating Young Patients With Excessive Daytime Sleepiness After Cancer Therapy, Not Recruiting
- Palbociclib Isethionate in Treating Younger Patients With Recurrent, Progressive, or Refractory Central Nervous System Tumors, Not Recruiting
- Peginterferon Alfa-2b in Younger Patients With Craniopharyngioma That is Recurrent or Cannot Be Removed By Surgery, Not Recruiting
- Phase I Rindopepimut After Conventional Radiation in Children w/ Diffuse Intrinsic Pontine Gliomas, Not Recruiting
- Phase I Study of APX005M in Pediatric CNS Tumors, Not Recruiting
- Selumetinib in Treating Young Patients With Recurrent or Refractory Low Grade Glioma, Not Recruiting
- Trial of Panobinostat in Children With Diffuse Intrinsic Pontine Glioma, Not Recruiting
- Vismodegib in Treating Younger Patients With Recurrent or Refractory Medulloblastoma, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Gustavo Chau Loo Kung, Griffin Hartmann, Weaverly Colleen Lee, Lindsey Mehl, David Wang

Postdoctoral Faculty Sponsor

Tara Barron, JoAnn Buchanan, Richard Drexler, Albina Ibrayeva, Lars Karlsson, Yoon Seok Kim, Minhui Su, Vrunda Trivedi, Haojun Xu

Doctoral Dissertation Advisor (AC)

Lehi Acosta-Alvarez, Lauren Koepke, Karen Malacon, Rebecca Mancusi, Abigail Rogers, Kiarash Shamardani

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Developmental Biology (Phd Program)
- Neurosciences (Phd Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **Glioma synapses recruit mechanisms of adaptive plasticity.** *Nature*

Taylor, K. R., Barron, T., Hui, A., Spitzer, A., Yalcin, B., Ivec, A. E., Geraghty, A. C., Hartmann, G. G., Arzt, M., Gillespie, S. M., Kim, Y. S., Maleki Jahan, S., Zhang, et al
2023

- **Neuron-oligodendroglial interactions in health and malignant disease.** *Nature reviews. Neuroscience*

Taylor, K. R., Monje, M.
2023

- **The neuroscience of cancer.** *Nature*

Mancusi, R., Monje, M.
2023; 618 (7965): 467-479

- **Mild respiratory COVID can cause multi-lineage neural cell and myelin dysregulation.** *Cell*

Fernández-Castañeda, A., Lu, P., Geraghty, A. C., Song, E., Lee, M. H., Wood, J., O'Dea, M. R., Dutton, S., Shamardani, K., Nwangwu, K., Mancusi, R., Yalcin, B., Taylor, et al
2022

- **GD2-CAR T cell therapy for H3K27M-mutated diffuse midline gliomas.** *Nature*

Majzner, R. G., Ramakrishna, S., Yeom, K. W., Patel, S., Chinnasamy, H., Schultz, L. M., Richards, R. M., Jiang, L., Barsan, V., Mancusi, R., Geraghty, A. C., Good, Z., Mochizuki, et al
2022

- **NF1 mutation drives neuronal activity-dependent initiation of optic glioma.** *Nature*

Pan, Y., Hysinger, J. D., Barron, T., Schindler, N. F., Cobb, O., Guo, X., Yalcin, B., Anastasaki, C., Mulinyawe, S. B., Ponnuswami, A., Scheaffer, S., Ma, Y., Chang, et al
2021

- **Roadmap for the Emerging Field of Cancer Neuroscience.** *Cell*

Monje, M., Borniger, J. C., D'Silva, N. J., Deneen, B., Dirks, P. B., Fattahi, F., Frenette, P. S., Garzia, L., Gutmann, D. H., Hanahan, D., Hervey-Jumper, S. L., Hondermarck, H., Hurov, et al
2020; 181 (2): 219–22

- **Electrical and synaptic integration of glioma into neural circuits.** *Nature*

Venkatesh, H. S., Morishita, W., Geraghty, A. C., Silverbush, D., Gillespie, S. M., Arzt, M., Tam, L. T., Espenel, C., Ponnuswami, A., Ni, L., Woo, P. J., Taylor, K. R., Agarwal, et al
2019

- **Methotrexate Chemotherapy Induces Persistent Tri-gial Dysregulation that Underlies Chemotherapy-Related Cognitive Impairment** *CELL*

Gibson, E. M., Nagaraja, S., Ocampo, A., Tam, L. T., Wood, L. S., Pallegar, P. N., Greene, J. J., Geraghty, A. C., Goldstein, A. K., Ni, L., Woo, P. J., Barres, B. A., Liddelow, et al
2019; 176 (1-2): 43-+

- **Loss of Adaptive Myelination Contributes to Methotrexate Chemotherapy-Related Cognitive Impairment.** *Neuron*

Geraghty, A. C., Gibson, E. M., Ghanem, R. A., Greene, J. J., Ocampo, A. n., Goldstein, A. K., Ni, L. n., Yang, T. n., Marton, R. M., Pa#ca, S. P., Greenberg, M. E., Longo, F. M., Monje, et al
2019

- **Potent antitumor efficacy of anti-GD2 CAR T cells in H3-K27M(+) diffuse midline gliomas** *NATURE MEDICINE*

Mount, C. W., Majzner, R. G., Sundaresh, S., Arnold, E. P., Kadapakkam, M., Haile, S., Labanieh, L., Hulleman, E., Woo, P. J., Rietberg, S. P., Vogel, H., Monje, M., Mackall, et al
2018; 24 (5): 572-+

- **Neural Precursor-Derived Pleiotrophin Mediates Subventricular Zone Invasion by Glioma.** *Cell*

Qin, E. Y., Cooper, D. D., Abbott, K. L., Lennon, J. n., Nagaraja, S. n., Mackay, A. n., Jones, C. n., Vogel, H. n., Jackson, P. K., Monje, M. n.
2017; 170 (5): 845–59.e19

- **Targeting neuronal activity-regulated neuroligin-3 dependency in high-grade glioma.** *Nature*
Venkatesh, H. S., Tam, L. T., Woo, P. J., Lennon, J. n., Nagaraja, S. n., Gillespie, S. M., Ni, J. n., Duveau, D. Y., Morris, P. J., Zhao, J. J., Thomas, C. J., Monje, M. n.
2017; 549 (7673): 533–37
- **Neuronal Activity Promotes Glioma Growth through Neuroligin-3 Secretion** *CELL*
Venkatesh, H. S., Johung, T. B., Caretti, V., Noll, A., Tang, Y., Nagaraja, S., Gibson, E. M., Mount, C. W., Polepalli, J., Mitra, S. S., Woo, P. J., Malenka, R. C., Vogel, et al
2015; 161 (4): 803–816
- **Neuronal Activity Promotes Oligodendrogenesis and Adaptive Myelination in the Mammalian Brain** *SCIENCE*
Gibson, E. M., Purger, D., Mount, C. W., Goldstein, A. K., Lin, G. L., Wood, L. S., Inema, I., Miller, S. E., Bieri, G., Zuchero, J. B., Barres, B. A., Woo, P. J., Vogel, et al
2014; 344 (6183): 487–?
- **Distinguishing features of Long COVID identified through immune profiling.** *Nature*
Klein, J., Wood, J., Jaycox, J., Dhodapkar, R. M., Lu, P., Gehlhausen, J. R., Tabachnikova, A., Greene, K., Tabacof, L., Malik, A. A., Silva Monteiro, V., Silva, J., Kamath, et al
2023
- **Tumors on different wavelengths.** *Cancer cell*
Shamardani, K., Monje, M.
2023
- **CAR T cell therapies for diffuse midline glioma.** *Trends in cancer*
Thomas, B. C., Staudt, D. E., Douglas, A. M., Monje, M., Vitanza, N. A., Dun, M. D.
2023
- **A Phase I Trial of Panobinostat in Children with Diffuse Intrinsic Pontine Glioma: A Report from the Pediatric Brain Tumor Consortium (PBTC-047).** *Neuro-oncology*
Monje, M., Cooney, T., Glod, J., Huang, J., Peer, C. J., Faury, D., Baxter, P., Kramer, K., Lenzen, A., Robison, N. J., Kilburn, L., Vinitsky, A., Figg, et al
2023
- **Remote neuronal activity drives glioma progression through SEMA4F.** *Nature*
Huang-Hobbs, E., Cheng, Y. T., Ko, Y., Luna-Figueroa, E., Lozzi, B., Taylor, K. R., McDonald, M., He, P., Chen, H. C., Yang, Y., Maleki, E., Lee, Z. F., Murali, et al
2023
- **Haploinsufficiency of NFKBIA reshapes the epigenome antipodal to the IDH mutation and imparts disease fate in diffuse gliomas.** *Cell reports. Medicine*
Bredel, M., Espinosa, L., Kim, H., Scholtens, D. M., McElroy, J. P., Rajbhandari, R., Meng, W., Kollmeyer, T. M., Malta, T. M., Quezada, M. A., Harsh, G. R., Lobo-Jarne, T., Sole, et al
2023; 4 (6): 101082
- **THE LANDSCAPE OF TUMOR CELL STATES AND SPATIAL ORGANIZATION IN H3-K27M MUTANT DIFFUSE MIDLINE GLIOMA ACROSS AGE AND LOCATION**
Liu, I., Jiang, L., Samuelsson, E., Salas, S., Beck, A., Hack, O., Jeong, D., Shaw, M., Englinger, B., LaBelle, J., Mire, H., Madlener, S., Mayr, et al
OXFORD UNIV PRESS INC.2023
- **Glioblastoma remodelling of human neural circuits decreases survival.** *Nature*
Krishna, S., Choudhury, A., Keough, M. B., Seo, K., Ni, L., Kakaizada, S., Lee, A., Aabedi, A., Popova, G., Lipkin, B., Cao, C., Nava Gonzales, C., Sudharshan, et al
2023
- **Cancer neuroscience: State of the field, emerging directions.** *Cell*
Winkler, F., Venkatesh, H. S., Amit, M., Batchelor, T., Demir, I. E., Deneen, B., Gutmann, D. H., Hervey-Jumper, S., Kuner, T., Mabbott, D., Platten, M., Rolls, A., Sloan, et al
2023; 186 (8): 1689–1707
- **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

- **Cancer hallmarks intersect with neuroscience in the tumor microenvironment.** *Cancer cell*
Hanahan, D., Monje, M.
2023; 41 (3): 573-580
- **Multifocal demyelinating leukoencephalopathy and oligodendroglial lineage cell loss with immune effector cell-associated neurotoxicity syndrome (ICANS) following CD19 CAR T-cell therapy for mantle cell lymphoma.** *Journal of neuropathology and experimental neurology*
Nie, E. H., Ahmadian, S. S., Bharadwaj, S. N., Acosta-Alvarez, L., Threlkeld, Z. D., Frank, M. J., Miklos, D. B., Monje, M., Scott, B. J., Vogel, H.
2023
- **The landscape of tumor cell states and spatial organization in H3-K27M mutant diffuse midline glioma across age and location.** *Nature genetics*
Liu, I., Jiang, L., Samuelsson, E. R., Marco Salas, S., Beck, A., Hack, O. A., Jeong, D., Shaw, M. L., Englinger, B., LaBelle, J., Mire, H. M., Madlener, S., Mayr, et al
2022; 54 (12): 1881-1894
- **Long-Term Cognitive and Neuropsychiatric Outcomes in Adults Who Have Received Chimeric Antigen Receptor T-Cell (CAR-T) Therapy for Aggressive Lymphoma at Stanford - a Pilot Feasibility Study**
Scott, B. J., Murray, T., Deutsch, G. K., Lahijani, S., Frank, M. J., Monje, M.
AMER SOC HEMATOLOGY.2022: 5201-5202
- **Adaptive and maladaptive myelination in health and disease.** *Nature reviews. Neurology*
Knowles, J. K., Batra, A., Xu, H., Monje, M.
2022
- **Microglia states and nomenclature: A field at its crossroads** *NEURON*
Paolicelli, R. C., Sierra, A., Stevens, B., Tremblay, M., Aguzzi, A., Ajami, B., Amit, I., Audinat, E., Bechmann, I., Bennett, M., Bennett, F., Bessis, A., Biber, et al
2022; 110 (21): 3458-3483
- **BAF complex maintains glioma stem cells in pediatric H3K27M-glioma.** *Cancer discovery*
Panditharatna, E., G Marques, J., Wang, T., Trissal, M. C., Liu, I., Jiang, L., Beck, A., Groves, A., Dharia, N. V., Li, D., Hoffman, S. E., Kugener, G., Shaw, et al
2022
- **The neurobiology of long COVID.** *Neuron*
Monje, M., Iwasaki, A.
2022
- **Mini-Review: Aplastic Myelin Following Chemotherapy.** *Neuroscience letters*
Savchuk, S., Monje, M.
2022: 136861
- **Neuron-Glia Interactions in Health and Brain Cancer.** *Advanced biology*
Pan, Y., Monje, M.
2022: e2200122
- **Invasive glioma cells: The malignant pioneers that follow the current.** *Cell*
Taylor, K. R., Monje, M.
2022; 185 (16): 2846-2848
- **Major tumor regressions in H3K27M-mutated diffuse midline glioma (DMG) following sequential intravenous (IV) and intracerebroventricular (ICV) delivery of GD2-CAR T cells**
Majzner, R. G., Mahdi, J., Ramakrishna, S., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Barsan, V., Richards, R., Campen, C., Reschke, A., Toland, A., Baggott, et al
AMER ASSOC CANCER RESEARCH.2022
- **MAJOR TUMOR REGRESSIONS IN H3K27M-MUTATED DIFFUSE MIDLINE GLIOMA (DMG) FOLLOWING SEQUENTIAL INTRAVENOUS (IV) AND INTRACEREBROVENTRICULAR (ICV) DELIVERY OF GD2-CAR T-CELLS**
Monje, M., Majzner, R., Mahdi, J., Ramakrishna, S., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Barsan, V., Richards, R., Campen, C., Reschke, A., Toland, A., et al
OXFORD UNIV PRESS INC.2022: 20-21

- **SIGNIFICANT TUMOR REGRESSION OF H3K27M-MUTATED DIFFUSE MIDLINE GLIOMA OF THE BRAINSTEM WITH PANOBINOSTAT: A CASE REPORT**
Partap, S., Abadilla, N., Farahzadi, T., Monje, M.
OXFORD UNIV PRESS INC.2022: 27
- **A PHASE I TRIAL OF PANOBINOSTAT FOLLOWING RADIATION THERAPY IN CHILDREN WITH DIFFUSE INTRINSIC PONTINE GLIOMA (DIPG) OR H3K27M-MUTATED THALAMIC DIFFUSE MIDLINE GLIOMA (DMG): REPORT FROM THE PEDIATRIC BRAIN TUMOR CONSORTIUM (PBTC-047)**
Monje, M., Cooney, T., Glod, J., Huang, J., Baxter, P., Vinitsky, A., Kilburn, L., Robison, N. J., Peer, C. J., Figg, W. D., Fouladi, M., Fangusaro, J., Onar-Thomas, et al
OXFORD UNIV PRESS INC.2022: 19
- **Neuronal hyperexcitability drives central and peripheral nervous system tumor progression in models of neurofibromatosis-1.** *Nature communications*
Anastasaki, C., Mo, J., Chen, J., Chatterjee, J., Pan, Y., Scheaffer, S. M., Cobb, O., Monje, M., Le, L. Q., Gutmann, D. H.
2022; 13 (1): 2785
- **H3-K27M-mutant nucleosomes interact with MLL1 to shape the glioma epigenetic landscape.** *Cell reports*
Furth, N., Algranati, D., Dassa, B., Beresh, O., Fedyuk, V., Morris, N., Kasper, L. H., Jones, D., Monje, M., Baker, S. J., Shema, E.
2022; 39 (7): 110836
- **Characteristics of Children #36 Months of Age with Diffuse Intrinsic Pontine Glioma (DIPG): A Report from the International DIPG Registry.** *Neuro-oncology*
Bartlett, A., Lane, A., Chaney, B., Escorza, N. Y., Black, K., Cochrane, A., Minturn, J., Bartels, U., Warren, K., Hansford, J., Ziegler, D., Diez, B., Goldman, et al
2022
- **Maladaptive myelination promotes generalized epilepsy progression.** *Nature neuroscience*
Knowles, J. K., Xu, H., Soane, C., Batra, A., Saucedo, T., Frost, E., Tam, L. T., Fraga, D., Ni, L., Villar, K., Talmi, S., Huguenard, J. R., Monje, et al
2022
- **Inhibiting USP16 rescues stem cell aging and memory in an Alzheimer's model.** *eLife*
Reinitz, F., Chen, E. Y., Nicolis di Robilant, B., Chuluun, B., Antony, J., Jones, R. C., Gubbi, N., Lee, K., Ho, W. H., Kolluru, S. S., Qian, D., Adorno, M., Piltti, et al
2022; 11
- **A light-gated transcriptional recorder for detecting cell-cell contacts.** *eLife*
Cho, K. F., Gillespie, S. M., Kalogiopoulos, N. A., Quezada, M. A., Jacko, M., Monje, M., Ting, A. Y.
2022; 11
- **Neural Signaling in Cancer.** *Annual review of neuroscience*
Keough, M. B., Monje, M.
2022
- **Anti-GD2 synergizes with CD47 blockade to mediate tumor eradication.** *Nature medicine*
Theruvath, J., Menard, M., Smith, B. A., Linde, M. H., Coles, G. L., Dalton, G. N., Wu, W., Kiru, L., Delaidelli, A., Sotillo, E., Silberstein, J. L., Geraghty, A. C., Banuelos, et al
1800
- **Characteristics of patients #10 years of age with diffuse intrinsic pontine glioma: a report from the International DIPG/DMG Registry.** *Neuro-oncology*
Erker, C., Lane, A., Chaney, B., Leary, S., Minturn, J. E., Bartels, U., Packer, R. J., Dorris, K., Gottardo, N. G., Warren, K. E., Broniscer, A., Kieran, M. W., Zhu, et al
1800; 24 (1): 141-152
- **Accuracy of Central Neuro-Imaging Review of DIPG Compared with Histopathology in the International DIPG Registry.** *Neuro-oncology*
Lazow, M. A., Fuller, C., DeWire, M., Lane, A., Bandopadhyay, P., Bartels, U., Bouffet, E., Cheng, S., Cohen, K. J., Cooney, T. M., Coven, S. L., Dholaria, H., Diez, et al
2021
- **Patient-derived models recapitulate heterogeneity of molecular signatures and drug response in pediatric high-grade glioma.** *Nature communications*
He, C., Xu, K., Zhu, X., Dunphy, P. S., Gudenas, B., Lin, W., Twarog, N., Hover, L. D., Kwon, C., Kasper, L. H., Zhang, J., Li, X., Dalton, et al
2021; 12 (1): 4089

● **GD2 CAR T cells mediate clinical activity and manageable toxicity in children and young adults with DIPG and H3K27M-mutated diffuse midline gliomas.**

Majzner, R. G., Ramakrishna, S., Mochizuki, A., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Richards, R., Campen, C., Reschke, A., Mahdi, J., Toland, A., Baggott, et al
AMER ASSOC CANCER RESEARCH.2021

● **Unravelling the Mechanisms of Cancer-Related Cognitive Dysfunction in Non-Central Nervous System Cancer.** *JAMA oncology*

Hervey-Jumper, S. L., Monje, M.
2021

● **Partitioned glioma heritability shows subtype-specific enrichment in immune cells.** *Neuro-oncology*

Ostrom, Q. T., Edelson, J., Byun, J., Han, Y., Kinnersley, B., Melin, B., Houlston, R. S., Monje, M., Walsh, K. M., Amos, C. I., Bondy, M. L.
2021

● **Microglia in Cancer Therapy-Related Cognitive Impairment.** *Trends in neurosciences*

Gibson, E. M., Monje, M.
2021

● **MRI-based radiomics for prognosis of pediatric diffuse intrinsic pontine glioma: an international study.** *Neuro-oncology advances*

Tam, L. T., Yeom, K. W., Wright, J. N., Jaju, A., Radmanesh, A., Han, M., Toescu, S., Maleki, M., Chen, E., Campion, A., Lai, H. A., Eghbal, A. A., Oztekin, et al
2021; 3 (1): vdab042

● **Microenvironmental interactions of oligodendroglial cells.** *Developmental cell*

Yalçın, B., Monje, M.
2021

● **Spinal Cord Injury - Healing from Within.** *The New England journal of medicine*

Monje, M. n.
2021; 384 (2): 182–84

● **The bright and the dark side of myelin plasticity: Neuron-glial interactions in health and disease.** *Seminars in cell & developmental biology*

Monje, M., Karadottir, R. T.
2020

● **RESEARCH RESOURCES FOR OLIGODENDROGLIOMA NOW AVAILABLE TO RESEARCH COMMUNITY**

Greene, B., Suva, M., Cahill, D., Monje, M., Rich, J., Mitchell, D., Verhaak, R., Abraham, B.
OXFORD UNIV PRESS INC.2020: 230

● **Pharmacologic inhibition of lysine specific demethylase-1 (LSD1) as a therapeutic and immune-sensitization strategy in pediatric high grade glioma (pHGG).** *Neuro-oncology*

Bailey, C. P., Figueroa, M., Gangadharan, A., Yang, Y., Romero, M. M., Kennis, B. A., Yadavilli, S., Henry, V., Collier, T., Monje, M., Lee, D. A., Wang, L., Nazarian, et al
2020

● **Locoregionally administered B7-H3-targeted CAR T cells for treatment of atypical teratoid/rhabdoid tumors.** *Nature medicine*

Theruvath, J. n., Sotillo, E. n., Mount, C. W., Graef, C. M., Delaidelli, A. n., Heitzeneder, S. n., Labanieh, L. n., Dhingra, S. n., Leruste, A. n., Majzner, R. G., Xu, P. n., Mueller, S. n., Yecies, et al
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