



## Michelle Monje

Associate Professor of Neurology and, by courtesy, of Neurosurgery, of Pediatrics, of Pathology and of Psychiatry and Behavioral Sciences

Neurology & Neurological Sciences

### CLINICAL OFFICES

- **Division of Child Neurology**

265 Campus Dr Rm G3077

Lokey Stem Cell Bldg

Palo Alto, CA 94305

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Vanessa Pulido - Administrative Associate

**Email** Vanessa.Pulido@stanford.edu

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### Bio

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### CLINICAL FOCUS

- Neurology
- Neuro Oncology

### ACADEMIC APPOINTMENTS

- Associate Professor, Neurology & Neurological Sciences
- Associate Professor (By courtesy), Neurosurgery
- Associate Professor (By courtesy), Pediatrics - Operations
- Associate Professor (By courtesy), Pathology
- Associate 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

- Young Investigator Award, Hagerty Foundation for Glioma Research (2006)
- K08 Mentored Clinical Scientist Career Development Award, National Institutes of Neurological Disorders and Stroke (2010 - 2015)
- Peter A. Steck Memorial Award, Pediatric Brain Tumor Foundation (2011)
- Basic Science IV Award, California Institute of Regenerative Medicine (CIRM) (2012 - 2015)
- 'A' Award, Alex's Lemonade Stand Foundation (2012-2015)
- New Faculty Physician Scientist Translational Research Award, California Institute of Regenerative Medicine (CIRM) (2013 - 2018)

- Neuro-Oncology Investigator Award, American Academy of Neurology (2017)
- NIH Director's Pioneer Award, NIH (2018-2023)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Institutional PI, Pediatric Brain Tumor Consortium (PBTC) (2018 - present)
- Chair, High-grade Glioma Working Group, Pediatric Brain Tumor Consortium (2013 - present)
- Member, Pediatric Brain Tumor Consortium Translational Biology Committee (2012 - present)

## **PROFESSIONAL EDUCATION**

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

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### **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**

- A Clinical and Molecular Risk-Directed Therapy for Newly Diagnosed Medulloblastoma, Recruiting
- Pembrolizumab in Treating Younger Patients With Recurrent, Progressive, or Refractory High-Grade Gliomas, Diffuse Intrinsic Pontine Gliomas, Hypermutated Brain Tumors, Ependymoma or Medulloblastoma, Recruiting
- Phase I Study of APX005M in Pediatric CNS Tumors, Recruiting

- Selumetinib in Treating Young Patients With Recurrent or Refractory Low Grade Glioma, Recruiting
- Trial of Panobinostat in Children With Diffuse Intrinsic Pontine Glioma, 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
- 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 Treating 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
- Vismodegib in Treating Younger Patients With Recurrent or Refractory Medulloblastoma, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

Razina Aziz-Bose

#### Doctoral Dissertation Reader (AC)

Eliza Adams, Liana Bonanno, Jessica Diaz, Manasi Iyer

#### Postdoctoral Faculty Sponsor

Marlene Arzt, Tara Barron, Anna Geraghty, Yuan Pan, Minhui Su, Kathryn Taylor, Humsa Venkatesh, Belgin Yalcin

#### Doctoral Dissertation Advisor (AC)

Shawn Gillespie, Grant Lin, Christopher Mount, Surya Nagaraja

#### Undergraduate Major Advisor

Anna Marie Manning

### 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

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### PUBLICATIONS

- **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-gliial 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., Goldstein, A. K., Ni, L., Yang, T., 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., Nagaraja, S., Mackay, A., Jones, C., Vogel, H., Jackson, P. K., Monje, M.  
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., Nagaraja, S., Gillespie, S. M., Ni, J., Duveau, D. Y., Morris, P. J., Zhao, J. J., Thomas, C. J., Monje, M.  
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-?
- **Monosynaptic tracing maps brain-wide afferent oligodendrocyte precursor cell connectivity.** *eLife*  
Mount, C. W., Yalcin, B., Cunliffe-Koehler, K., Sundaresh, S., Monje, M.  
2019; 8
- **Histone Variant and Cell Context Determine H3K27M Reprogramming of the Enhancer Landscape and Oncogenic State.** *Molecular cell*  
Nagaraja, S., Quezada, M. A., Gillespie, S. M., Arzt, M., Lennon, J. J., Woo, P. J., Hovestadt, V., Kambhampati, M., Filbin, M. G., Suva, M. L., Nazarian, J., Monje, M.  
2019
- **Diffuse intrinsic pontine glioma: molecular landscape and emerging therapeutic targets.** *Current opinion in oncology*  
Aziz-Bose, R., Monje, M.  
2019
- **Emerging mechanistic underpinnings and therapeutic targets for chemotherapy-related cognitive impairment.** *Current opinion in oncology*  
Gibson, E. M., Monje, M.  
2019
- **Comment on "Genetic and genomic alterations differentially dictate low-grade glioma growth through cancer stem cell-specific chemokine recruitment of T cells and microglia", Guo et al. 2019, Neuro-Oncology.** *Neuro-oncology*  
Arzt, M., Monje, M.  
2019
- **Diffuse Intrinsic Pontine Glioma: From Diagnosis to Next-Generation Clinical Trials.** *Current treatment options in neurology*  
Vitanza, N. A., Monje, M.  
2019; 21 (8): 37
- **An Integrative Model of Cellular States, Plasticity, and Genetics for Glioblastoma.** *Cell*  
Neftel, C., Laffy, J., Filbin, M. G., Hara, T., Shore, M. E., Rahme, G. J., Richman, A. R., Silverbush, D., Shaw, M. L., Hebert, C. M., Dewitt, J., Gritsch, S., Perez, et al  
2019
- **The oncolytic virus Delta-24-RGD elicits an antitumor effect in pediatric glioma and DIPG mouse models.** *Nature communications*

Martinez-Velez, N., Garcia-Moure, M., Marigil, M., Gonzalez-Huarriz, M., Puigdelloses, M., Gallego Perez-Larraya, J., Zalacain, M., Marrodan, L., Varela-Guruceaga, M., Laspidea, V., Aristu, J. J., Ramos, L. I., Tejada-Solis, et al  
2019; 10 (1): 2235

- **CAR T Cells Targeting B7-H3, a Pan-Cancer Antigen, Demonstrate Potent Preclinical Activity Against Pediatric Solid Tumors and Brain Tumors** *CLINICAL CANCER RESEARCH*  
Majzner, R. G., Theruvath, J. L., Nellan, A., Heitzeneder, S., Cui, Y., Mount, C. W., Rietberg, S. P., Linde, M. H., Xu, P., Rota, C., Sotillo, E., Labanieh, L., Lee, et al  
2019; 25 (8): 2560–74
- **Developmental origins and emerging therapeutic opportunities for childhood cancer.** *Nature medicine*  
Filbin, M., Monje, M.  
2019
- **Developmental origins and emerging therapeutic opportunities for childhood cancer** *NATURE MEDICINE*  
Filbin, M., Monje, M.  
2019; 25 (3): 367–76
- **CAR T cells targeting B7-H3, a Pan-Cancer Antigen, Demonstrate Potent Preclinical Activity Against Pediatric Solid Tumors and Brain Tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Majzner, R. G., Theruvath, J. L., Nellan, A., Heitzeneder, S., Cui, Y., Mount, C. W., Rietberg, S. P., Linde, M. H., Xu, P., Rota, C., Sotillo, E., Labanieh, L., Lee, et al  
2019
- **ALK2 inhibitors display beneficial effects in preclinical models of ACVR1 mutant diffuse intrinsic pontine glioma.** *Communications biology*  
Carvalho, D., Taylor, K. R., Olaciregui, N. G., Molinari, V., Clarke, M., Mackay, A., Ruddle, R., Henley, A., Valenti, M., Hayes, A., Brandon, A. D., Eccles, S. A., Raynaud, et al  
2019; 2: 156
- **International experience in the development of patient-derived xenograft models of diffuse intrinsic pontine glioma** *JOURNAL OF NEURO-ONCOLOGY*  
Tsoli, M., Shen, H., Mayoh, C., Franshaw, L., Ehteda, A., Upton, D., Carvalho, D., Vinci, M., Meel, M. H., van Vuurden, D., Plessier, A., Castel, D., Drissi, et al  
2019; 141 (2): 253–63
- **International experience in the development of patient-derived xenograft models of diffuse intrinsic pontine glioma.** *Journal of neuro-oncology*  
Tsoli, M., Shen, H., Mayoh, C., Franshaw, L., Ehteda, A., Upton, D., Carvalho, D., Vinci, M., Meel, M. H., van Vuurden, D., Plessier, A., Castel, D., Drissi, et al  
2018
- **Open questions: why are babies rarely born with cancer?** *BMC BIOLOGY*  
Monje, M.  
2018; 16
- **Open questions: why are babies rarely born with cancer?** *BMC biology*  
Monje, M.  
2018; 16 (1): 129
- **An active role for neurons in glioma progression: making sense of Scherer's structures** *NEURO-ONCOLOGY*  
Gillespie, S., Monje, M.  
2018; 20 (10): 1292–99
- **Functional diversity and cooperativity between subclonal populations of pediatric glioblastoma and diffuse intrinsic pontine glioma cells** *NATURE MEDICINE*  
Vinci, M., Burford, A., Molinari, V., Kessler, K., Popov, S., Clarke, M., Taylor, K. R., Pemberton, H. N., Lord, C. J., Gutteridge, A., Forshew, T., Carvalho, D., Marshall, et al  
2018; 24 (8): 1204+
- **Myelin Plasticity and Nervous System Function.** *Annual review of neuroscience*  
Monje, M.  
2018; 41: 61–76
- **Non-inflammatory tumor microenvironment of diffuse intrinsic pontine glioma.** *Acta neuropathologica communications*  
Lin, G. L., Nagaraja, S., Filbin, M. G., Suva, M. L., Vogel, H., Monje, M.

2018; 6 (1): 51

- **Non-inflammatory tumor microenvironment of diffuse intrinsic pontine glioma** *ACTA NEUROPATHOLOGICA COMMUNICATIONS*  
Lin, G. L., Nagaraja, S., Filbin, M. G., Suva, M. L., Vogel, H., Monje, M.  
2018; 6
- **A PHASE 1 TRIAL OF THE HISTONE DEACETYLASE INHIBITOR PANOBINOSTAT IN PEDIATRIC PATIENTS WITH RECURRENT OR REFRACTORY DIFFUSE INTRINSIC PONTINE GLIOMA: A PEDIATRIC BRAIN TUMOR CONSORTIUM (PBTC) STUDY**  
Cooney, T., Onar-Thomas, A., Huang, J., Lulla, R., Fangusaro, J., Kramer, K., Baxter, P., Fouladi, M., Dunkel, I. J., Warren, K. E., Monje, M.  
OXFORD UNIV PRESS INC.2018: 53
- **An Active Role for Neurons in Glioma Progression: Making Sense of Scherer's Structures.** *Neuro-oncology*  
Gillespie, S., Monje, M.  
2018
- **Developmental and oncogenic programs in H3K27M gliomas dissected by single-cell RNA-seq** *SCIENCE*  
Filbin, M. G., Tirosh, I., Hovestadt, V., Shaw, M. L., Escalante, L. E., Mathewson, N. D., Neftel, C., Frank, N., Pelton, K., Hebert, C., Haberler, C., Yizhak, K., Gojo, et al  
2018; 360 (6386): 331–35
- **Bad wrap: Myelin and myelin plasticity in health and disease** *DEVELOPMENTAL NEUROBIOLOGY*  
Gibson, E. M., Geraghty, A. C., Monje, M.  
2018; 78 (2): 123–35
- **Methotrexate Chemotherapy Induces Persistent Tri-gliial 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  
2018
- **Myelin Plasticity and Nervous System Function** *ANNUAL REVIEW OF NEUROSCIENCE, VOL 41*  
Monje, M., Roska, B., Zoghbi, H. Y.  
2018; 41: 61–76
- **Potent antitumor efficacy of anti-GD2 CAR T cells in H3-K27M+ diffuse midline gliomas.** *Nature medicine*  
Mount, C. W., Majzner, R. G., Sundares, 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
- **Neuronal activity in the glioma microenvironment** *CURRENT OPINION IN NEUROBIOLOGY*  
Johung, T., Monje, M.  
2017; 47: 156–61
- **Contemporary survival endpoints: an International Diffuse Intrinsic Pontine Glioma Registry study** *NEURO-ONCOLOGY*  
Cooney, T., Lane, A., Bartels, U., Bouffet, E., Goldman, S., Leary, S. S., Foreman, N. K., Packer, R. J., Broniscer, A., Minturn, J. E., Shih, C., Chintagumpala, M., Hassall, et al  
2017; 19 (9): 1279–80
- **Chemoradiation impairs normal developmental cortical thinning in medulloblastoma.** *Journal of neuro-oncology*  
Kundu, P., Li, M. D., Durkee, B. Y., Hiniker, S. M., Bush, K., von Eyben, R., Monje, M. L., Yeom, K. W., Donaldson, S. S., Gibbs, I. C.  
2017
- **Transcriptional Dependencies in Diffuse Intrinsic Pontine Glioma** *CANCER CELL*  
Nagaraja, S., Vitanza, N. A., Woo, P. J., Taylor, K. R., Liu, F., Zhang, L., Li, M., Meng, W., Ponnuswami, A., Sun, W., Ma, J., Hulleman, E., Swigut, et al  
2017; 31 (5): 635-?
- **Decoupling genetics, lineages, and microenvironment in IDH-mutant gliomas by single-cell RNA-seq** *SCIENCE*  
Venteicher, A. S., Tirosh, I., Hebert, C., Yizhak, K., Neftel, C., Filbin, M. G., Hovestadt, V., Escalante, L. E., Shaw, M. L., Rodman, C., Gillespie, S. M., Dionne, D., Luo, et al  
2017; 355 (6332): 1391-?
- **Disrupting the CD47-SIRP alpha anti-phagocytic axis by a humanized anti-CD47 antibody is an efficacious treatment for malignant pediatric brain tumors** *SCIENCE TRANSLATIONAL MEDICINE*

- Gholamin, S., Mitra, S. S., Feroze, A. H., Liu, J., Kahn, S. A., Zhang, M., Esparza, R., Richard, C., Ramaswamy, V., Remke, M., Volkmer, A. K., Willingham, S., Ponnuswami, et al  
2017; 9 (381)
- **A Protocol for Rapid Post-mortem Cell Culture of Diffuse Intrinsic Pontine Glioma (DIPG)** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*  
Lin, G. L., Monje, M.  
2017
  - **Brain Perfusion and Diffusion Abnormalities in Children Treated for Posterior Fossa Brain Tumors.** *journal of pediatrics*  
Li, M. D., Forkert, N. D., Kundu, P., Ambler, C., Lober, R. M., Burns, T. C., Barnes, P. D., Gibbs, I. C., Grant, G. A., Fisher, P. G., Cheshier, S. H., Campen, C. J., Monje, et al  
2017
  - **Pediatric high-grade glioma: biologically and clinically in need of new thinking** *NEURO-ONCOLOGY*  
Jones, C., Karajannis, M. A., Jones, D. T., Kieran, M. W., Monje, M., Baker, S. J., Becher, O. J., Cho, Y., Gupta, N., Hawkins, C., Hargrave, D., Haas-Kogan, D. A., Jabado, et al  
2017; 19 (2): 153-161
  - **The international diffuse intrinsic pontine glioma registry: an infrastructure to accelerate collaborative research for an orphan disease.** *Journal of neuro-oncology*  
Baugh, J., Bartels, U., Leach, J., Jones, B., Chaney, B., Warren, K. E., Kirkendall, J., Doughman, R., Hawkins, C., Miles, L., Fuller, C., Hassall, T., Bouffet, et al  
2017
  - **Diffuse Intrinsic Pontine Glioma: New Pathophysiological Insights and Emerging Therapeutic Targets** *CURRENT NEUROPHARMACOLOGY*  
Johung, T. B., Monje, M.  
2017; 15 (1): 88-97
  - **Single-cell RNA-seq supports a developmental hierarchy in human oligodendroglioma.** *Nature*  
Tirosh, I., Venteicher, A. S., Hebert, C., Escalante, L. E., Patel, A. P., Yizhak, K., Fisher, J. M., Rodman, C., Mount, C., Filbin, M. G., Neftel, C., Desai, N., Nyman, et al  
2016
  - **Myelin plasticity in the central nervous system.** *Neuropharmacology*  
Purger, D., Gibson, E. M., Monje, M.  
2016; 110: 563-573
  - **Pediatric high-grade glioma: biologically and clinically in need of new thinking.** *Neuro-oncology*  
Jones, C., Karajannis, M. A., Jones, D. T., Kieran, M. W., Monje, M., Baker, S. J., Becher, O. J., Cho, Y., Gupta, N., Hawkins, C., Hargrave, D., Haas-Kogan, D. A., Jabado, et al  
2016
  - **Functionally defined therapeutic targets in diffuse intrinsic pontine glioma** *NATURE MEDICINE*  
Grasso, C. S., Tang, Y., Truffaux, N., Berlow, N. E., Liu, L., Debily, M., Quist, M. J., Davis, L. E., Huang, E. C., Woo, P. J., Ponnuswami, A., Chen, S., Johung, et al  
2015; 21 (6): 555-559
  - **Epigenetic targeting of Hedgehog pathway transcriptional output through BET bromodomain inhibition** *NATURE MEDICINE*  
Tang, Y., Gholamin, S., Schubert, S., Willardson, M. I., Lee, A., Bandopadhyay, P., Bergthold, G., Masoud, S., Nguyen, B., Vue, N., Balansay, B., Yu, F., Oh, et al  
2014; 20 (7): 732-740
  - **Human pontine glioma cells can induce murine tumors.** *Acta neuropathologica*  
Caretti, V., Sewing, A. C., Lagerweij, T., Schellen, P., Bugiani, M., Jansen, M. H., van Vuurden, D. G., Navis, A. C., Horsman, I., Vandertop, W. P., Noske, D. P., Wesseling, P., Kaspers, et al  
2014; 127 (6): 897-909
  - **Recurrent activating ACVR1 mutations in diffuse intrinsic pontine glioma** *NATURE GENETICS*  
Taylor, K. R., Mackay, A., Truffaux, N., Butterfield, Y. S., Morozova, O., Philippe, C., Castel, D., Grasso, C. S., Vinci, M., Carvalho, D., Carcaboso, A. M., de Torres, C., Cruz, et al  
2014; 46 (5): 457-461

- **Diffusion-weighted MRI derived apparent diffusion coefficient identifies prognostically distinct subgroups of pediatric diffuse intrinsic pontine glioma.** *Journal of neuro-oncology*  
Lober, R. M., Cho, Y., Tang, Y., Barnes, P. D., Edwards, M. S., Vogel, H., Fisher, P. G., Monje, M., Yeom, K. W.  
2014; 117 (1): 175-182
- **Subventricular spread of diffuse intrinsic pontine glioma.** *Acta neuropathologica*  
Caretti, V., Bugiani, M., Freret, M., Schellen, P., Jansen, M., van Vuurden, D., Kaspers, G., Fisher, P. G., Hulleman, E., Wesseling, P., Vogel, H., Monje, M.  
2014
- **Reduced H3K27me3 and DNA Hypomethylation Are Major Drivers of Gene Expression in K27M Mutant Pediatric High-Grade Gliomas.** *Cancer cell*  
Bender, S., Tang, Y., Lindroth, A. M., Hovestadt, V., Jones, D. T., Kool, M., Zapatka, M., Northcott, P. A., Sturm, D., Wang, W., Radlwimmer, B., Højfeldt, J. W., Truffaux, et al  
2013; 24 (5): 660-672
- **Functional and structural differences in the hippocampus associated with memory deficits in adult survivors of acute lymphoblastic leukemia** *PEDIATRIC BLOOD & CANCER*  
Monje, M., Thomason, M. E., Rigolo, L., Wang, Y., Waber, D. P., Sallan, S. E., Golby, A. J.  
2013; 60 (2): 293-300
- **Effect of cancer therapy on neural stem cells: implications for cognitive function** *CURRENT OPINION IN ONCOLOGY*  
Gibson, E., Monje, M.  
2012; 24 (6): 672-678
- **Cognitive side effects of cancer therapy demonstrate a functional role for adult neurogenesis** *BEHAVIOURAL BRAIN RESEARCH*  
Monje, M., Dietrich, J.  
2012; 227 (2): 376-379
- **Complete Ocular Paresis in a Child with Posterior Fossa Syndrome** *PEDIATRIC NEUROSURGERY*  
Afshar, M., Link, M., Edwards, M. S., Fisher, P. G., Fredrick, D., Monje, M.  
2012; 48 (1): 51-54
- **Hedgehogs, Flies, Wnts and MYCs: The Time Has Come for Many Things in Medulloblastoma** *JOURNAL OF CLINICAL ONCOLOGY*  
Monje, M., Beachy, P. A., Fisher, P. G.  
2011; 29 (11): 1395-1398
- **Hedgehog-responsive candidate cell of origin for diffuse intrinsic pontine glioma** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Monje, M., Mitra, S. S., Freret, M. E., Raveh, T. B., Kim, J., Masek, M., Attema, J. L., Li, G., Haddix, T., Edwards, M. S., Fisher, P. G., Weissman, I. L., Rowitch, et al  
2011; 108 (11): 4453-4458
- **Neurological complications following treatment of children with brain tumors.** *Journal of pediatric rehabilitation medicine*  
Monje, M., Fisher, P. G.  
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