

Stanford



Melanie Hayden Gephart

Associate Professor of Neurosurgery and, by courtesy, of Neurology at the Stanford University Medical Center

CONTACT INFORMATION

- **Stanford Brain Tumor Center**

Tel 650 497 7777

Bio

BIO

I am a brain tumor neurosurgeon, treating patients with malignant and benign tumors, including glioma, brain metastases, meningioma, vestibular schwannoma, and pituitary adenomas. Our lab seeks greater understanding of the genetic and epigenetic mechanisms driving tumorigenesis and disease progression in malignant brain tumors. We currently study the capacity of cellular and cell-free nucleic acids to inform cancer biology and response to therapy. We also use single cell and cell subtype-specific transcriptomics to identify and target infiltrating glioblastoma. We use these techniques to identify mechanisms of tumor migration, and to stop tumor growth. Our laboratory is a unique and collaborative working environment, engaged in a dynamic research environment at Stanford. Our laboratory space lies at the heart of the Stanford campus between the core campus and the medical facilities, emblematic of the translational aspects of our work.

www.GephartLab.com

www.GBMseq.org

<https://stan.md/BrainMets>

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Neurosurgery
- Associate Professor - Med Center Line (By courtesy), Neurology & Neurological Sciences
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Co-Director, Stanford Brain Tumor Center, Stanford University, (2018- present)
- Director, Stanford Brain Metastases Consortium, (2018- present)

PROFESSIONAL EDUCATION

- Neurosurgery Residency, Stanford University (2014)
- MD, University of California at San Diego (2007)
- Masters of Advanced Sciences, University of California at San Diego , Clinical Research (2007)

- BS, University of California at San Diego , Neuroscience and Physiology (2001)

LINKS

- My Lab Website: www.GephartLab.com
- www.GBMseq.org: www.GBMseq.org
- www.BrainRNAseq.org: www.BrainRNAseq.org

Research & Scholarship

CLINICAL TRIALS

- Panitumumab-IRDye800 in Diagnosing Participants With Malignant Glioma Undergoing Surgery, Not Recruiting
- The Toca 5 Trial: Toca 511 & Toca FC Versus Standard of Care in Patients With Recurrent High Grade Glioma, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Hriday Bhambhani, Bina Kakusa, Adrian Rodrigues

Postdoctoral Faculty Sponsor

Shruti Jain, Dina Polyak, Maxine Umeh Garcia

Publications

PUBLICATIONS

- **Recurrently Mutated Genes Differ between Leptomeningeal and Solid Lung Cancer Brain Metastases.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Li, Y., Liu, B., Connolly, I. D., Kakusa, B. W., Pan, W., Nagpal, S., Montgomery, S. B., Hayden Gephart, M.
2018
- **Single-Cell RNA-Seq Analysis of Infiltrating Neoplastic Cells at the Migrating Front of Human Glioblastoma.** *Cell reports*
Darmanis, S., Sloan, S. A., Croote, D., Mignardi, M., Chernikova, S., Samghababi, P., Zhang, Y., Neff, N., Kowarsky, M., Caneda, C., Li, G., Chang, S. D., Connolly, et al
2017; 21 (5): 1399–1410
- **Tumor DNA in cerebral spinal fluid reflects clinical course in a patient with melanoma leptomeningeal brain metastases** *JOURNAL OF NEURO-ONCOLOGY*
Li, Y., Pan, W., Connolly, I. D., Reddy, S., Nagpal, S., Quake, S., Gephart, M. H.
2016; 128 (1): 93-100
- **Purification and Characterization of Progenitor and Mature Human Astrocytes Reveals Transcriptional and Functional Differences with Mouse** *NEURON*
Zhang, Y., Sloan, S. A., Clarke, L. E., Caneda, C., Plaza, C. A., Blumenthal, P. D., Vogel, H., Steinberg, G. K., Edwards, M. S., Li, G., Duncan, J. A., Cheshier, S. H., Shuer, et al
2016; 89 (1): 37-53
- **A survey of human brain transcriptome diversity at the single cell level** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Darmanis, S., Sloan, S. A., Zhang, Y., Enge, M., Caneda, C., Shuer, L. M., Gephart, M. G., Barres, B. A., Quake, S. R.
2015; 112 (23): 7285-7290
- **Brain Tumor Mutations Detected in Cerebral Spinal Fluid** *CLINICAL CHEMISTRY*
Pan, W., Gu, W., Nagpal, S., Gephart, M. H., Quake, S. R.
2015; 61 (3): 514-522

- **Neuropilin-2 contributes to tumorigenicity in a mouse model of Hedgehog pathway medulloblastoma** *JOURNAL OF NEURO-ONCOLOGY*
Gephart, M. G., Su, Y. S., Bandara, S., Tsai, F., Hong, J., Conley, N., Rayburn, H., Milenkovic, L., Meyer, T., Scott, M. P.
2013; 115 (2): 161-168
- **Engineered knottin peptide enables noninvasive optical imaging of intracranial medulloblastoma.** *Proceedings of the National Academy of Sciences of the United States of America*
Moore, S. J., Hayden Gephart, M. G., Bergen, J. M., Su, Y. S., Rayburn, H., Scott, M. P., Cochran, J. R.
2013; 110 (36): 14598-14603
- **Neuropilins are positive regulators of Hedgehog signal transduction** *GENES & DEVELOPMENT*
Hillman, R. T., Feng, B. Y., Ni, J., Woo, W., Milenkovic, L., Gephart, M. G., Teruel, M. N., Oro, A. E., Chen, J. K., Scott, M. P.
2011; 25 (22): 2333-2346
- **Leptomeningeal Carcinomatosis: Molecular Landscape, Current Management, and Emerging Therapies.** *Neurosurgery clinics of North America*
Bhambhani, H. P., Rodrigues, A. J., Umeh-Garcia, M. C., Hayden Gephart, M.
2020; 31 (4): 613-25
- **Commentary: Predicting Postoperative Outcomes in Brain Tumor Patients With a 5-Factor Modified Frailty Index.** *Neurosurgery*
Zhang, M., Hayden Gephart, M., Zygourakis, C. C.
2020
- **Difference-Frequency Ultrasound Imaging With Non-Linear Contrast** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Li, Y., Polyak, D., Johnson, E., Yecies, D., Shevidi, S., de la Zerda, A., Gephart, M., Chu, S.
2020; 39 (5): 1759-66
- **Hepatocellular Carcinoma Brain Metastases: A Single-Institution Experience.** *World neurosurgery*
Falkson, S. R., Bhambhani, H. P., Gephart, M. H.
2020
- **Prostate Cancer Brain Metastases: A Single-Institution Experience.** *World neurosurgery*
Bhambhani, H. P., Greenberg, D. R., Srinivas, S., Gephart, M. H.
2020
- **A Phase I/II Trial of 5-Fraction Stereotactic Radiosurgery with 5-mm Margins with Concurrent Temozolomide in Newly Diagnosed Glioblastoma: Primary Outcomes.** *Neuro-oncology*
Azoulay, M., Chang, S. D., Gibbs, I. C., Hancock, S. L., Pollom, E. L., Harsh, G. R., Adler, J. R., Harrahar, C., Li, G., Hayden Gephart, M., Nagpal, S., Thomas, R. P., Recht, et al
2020
- **Costs and Complications Associated with Resection of Supratentorial Tumors with and without the Operative Microscope in the United States.** *World neurosurgery*
Zhang, Y., Zhang, M., Lin, M., Gephart, M. H., Veeravagu, A., Ratliff, J. K., Li, G.
2020
- **Intracranial Tumor Control Following Immune-Related Adverse Events and Discontinuation of Immunotherapy for Melanoma.** *World neurosurgery*
Zhang, M., Rodrigues, A. J., Bhambhani, H. P., Fatemi, P., Pollom, E. L., Gibbs, I. C., Thomas, R. P., Soltys, S. G., Hancock, S. L., Chang, S. D., Reddy, S. A., Gephart, M. H., Li, et al
2020
- **Stereotactic Radiosurgery for Resected Brain Metastases - Does the Surgical Corridor Need to be Targeted?** *Practical radiation oncology*
Shi, S., Sandhu, N., Jin, M., Wang, E., Liu, E., Jaoude, J. A., Schofield, K., Zhang, C., Gibbs, I. C., Hancock, S. L., Chang, S. D., Li, G., Gephart, et al
2020
- **Executive Summary from American Radium Society's Appropriate Use Criteria on Neurocognition after stereotactic radiosurgery for multiple brain metastases.** *Neuro-oncology*
Milano, M. T., Chiang, V. L., Soltys, S. G., Wang, T. J., Lo, S. S., Brackett, A., Nagpal, S., Chao, S., Garg, A. K., Jabbari, S., Halasz, L. M., Gephart, M. H., Knisely, et al
2020
- **Local control and toxicity outcomes of stereotactic radiosurgery for spinal metastases of gastrointestinal origin.** *Journal of neurosurgery. Spine*

- Sandhu, N., Benson, K. R., Kumar, K. A., Eyben, R. V., Chang, D. T., Gibbs, I. C., Hancock, S. L., Meola, A., Chang, S. D., Li, G., Hayden-Gephart, M., Soltys, S. G., Pollom, et al
2020: 1–8
- **Racial and socioeconomic correlates of treatment and survival among patients with meningioma: a population-based study.** *Journal of neuro-oncology*
Bhambhani, H. P., Rodrigues, A. J., Medress, Z. A., Hayden Gephart, M.
2020
 - **Evaluating Surgical Resection Extent and Adjuvant Therapy in the Management of Gliosarcoma.** *Frontiers in oncology*
Jin, M. C., Liu, E. K., Shi, S., Gibbs, I. C., Thomas, R., Recht, L., Soltys, S. G., Pollom, E. L., Chang, S. D., Hayden Gephart, M., Nagpal, S., Li, G.
2020; 10: 337
 - **Stereotactic Radiosurgery After Resection of Brain Metastases: Changing Patterns of Care in the United States.** *World neurosurgery*
Chin, A. L., Li, G., Gephart, M. H., Sandhu, N., Nagpal, S., Soltys, S. G., Pollom, E. L.
2020
 - **A NOVEL BRAIN-PERMEANT CHEMOTHERAPEUTIC AGENT FOR THE TREATMENT OF BREAST CANCER LEPTOMENINGEAL METASTASIS**
Deng, J., Chernikova, S., Fischer, W., Koller, K., Jandeleit, B., Ringold, G., Gephart, M.
OXFORD UNIV PRESS INC.2019: 70
 - **Long-Term Update of Stereotactic Radiosurgery for Benign Spinal Tumors** *NEUROSURGERY*
Chin, A. L., Fujimoto, D., Kumar, K. A., Tupper, L., Mansour, S., Chang, S. D., Adler, J. R., Gibbs, I. C., Hancock, S. L., Dodd, R., Li, G., Gephart, M., Ratliff, et al
2019; 85 (5): 708–16
 - **COMPREHENSIVE RNA ANALYSIS OF CEREBROSPINAL FLUID FROM LEPTOMENINGEAL METASTASES**
Polyak, D., Li, Y., Liu, B., Connolly, I., Khoeur, L., Kakusa, B., Johnson, E., Andersen, S., Pan, W., Nagpal, S., Montgomery, S. B., Gephart, M.
OXFORD UNIV PRESS INC.2019: 62
 - **EVALUATION OF DYNAMIN 2 (DNM2) AS A THERAPEUTIC TARGET IN LEPTOMENINGEAL METASTATIC DISEASE**
Chernikova, S., Polyak, D., Deng, J., Tsau, S., Casey, K., Johnson, E., Bhambhani, H., Khoeur, L., Stanley, G., Tran, K., Connolly, I., Joyce, A., Li, et al
OXFORD UNIV PRESS INC.2019: 57
 - **Epidermal Growth Factor Receptor Mutation Status Confers Survival Benefit in Patients with Non-Small-Cell Lung Cancer Undergoing Surgical Resection of Brain Metastases: A Retrospective Cohort Study** *WORLD NEUROSURGERY*
Huang, Y., Chow, K. H., Aredo, J. V., Padda, S. K., Han, S. S., Kakusa, B. W., Gephart, M.
2019; 125: E487–E496
 - **EGFR mutation status confers survival benefit in non-small cell lung cancer patients undergoing surgical resection of brain metastases: a retrospective cohort study.** *World neurosurgery*
Huang, Y., Chow, K. K., Aredo, J. V., Padda, S. K., Han, S. S., Kakusa, B. W., Gephart, M. H.
2019
 - **Socioeconomic Predictors of Pituitary Surgery** *CUREUS*
Deb, S., Vyas, D. B., Pendharkar, A., Rezaei, P. G., Schoen, M. K., Desai, K., Gephart, M. H., Desai, A.
2019; 11 (1)
 - **Outcomes and costs following Ommaya placement with thrombocytopenia among US cancer patients.** *World neurosurgery*
Zhang, M., Zhang, Y., Zheng, E., Gephart, M. H., Veeravagu, A., Desai, A., Ratliff, J. K., Li, G.
2019
 - **Antitumor activity of an engineered decoy receptor targeting CLCF1-CNTFR signaling in lung adenocarcinoma.** *Nature medicine*
Kim, J. W., Marquez, C. P., Kostyrko, K., Koehne, A. L., Marini, K., Simpson, D. R., Lee, A. G., Leung, S. G., Sayles, L. C., Shrager, J., Ferrer, I., Paz-Ares, L., Gephart, et al
2019
 - **Non-Contrast T2-Weighted MR Sequences for Long Term Monitoring of Asymptomatic Convexity Meningiomas.** *World neurosurgery*
He, J. Q., Iv, M., Li, G., Zhang, M., Hayden-Gephart, M.
2019

- **Socioeconomic Predictors of Pituitary Surgery.** *Cureus*
Deb, S., Vyas, D. B., Pendharkar, A. V., Rezaii, P. G., Schoen, M. K., Desai, K., Gephart, M. H., Desai, A.
2019; 11 (1): e3957
- **Stereotactic radiosurgery for resected brain metastases: single-institutional experience of over 500 cavities.** *International journal of radiation oncology, biology, physics*
Shi, S., Sandhu, N., Jin, M. C., Wang, E., Jaoude, J. A., Schofield, K., Zhang, C., Liu, E., Gibbs, I. C., Hancock, S. L., Chang, S. D., Li, G., Hayden-Gephart, et al
2019
- **Nodular Leptomeningeal Disease - A Distinct Pattern of Recurrence After Post-Resection Stereotactic Radiosurgery for Brain Metastases: A Multi-Institutional Study of Inter-Observer Reliability.** *International journal of radiation oncology, biology, physics*
Turner, B. E., Prabhu, R. S., Burri, S. H., Brown, P. D., Pollom, E. L., Milano, M. T., Weiss, S. E., Iv, M., Fischbein, N., Soliman, H., Lo, S. S., Chao, S. T., Cox, et al
2019
- **Stereotactic Radiosurgery for Pediatric and Adult Intracranial and Spinal Ependymomas.** *Stereotactic and functional neurosurgery*
Shi, S., Jin, M. C., Koenig, J., Gibbs, I. C., Soltys, S. G., Chang, S. D., Li, G., Hayden Gephart, M., Hiniker, S. M., Pollom, E. L.
2019: 1–6
- **Cavernous malformations are rare sequelae of stereotactic radiosurgery for brain metastases.** *Acta neurochirurgica*
Seiger, K., Pendharkar, A. V., Samghabadi, P., Chang, S. D., Cho, N., Choi, C. Y., Wang, C., Gephart, M. H., Soltys, S. G.
2018
- **Linked read whole genome sequencing reveals pervasive chromosomal level instability and novel rearrangements in brain metastases from colorectal cancer**
Xia, L. C., Bell, J. M., Wood-Bouwens, C., King, D. A., Shin, G., Greer, S., Connolly, I. D., Gephart, M. H., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2018
- **A Combination of Ontogeny and CNS Environment Establishes Microglial Identity.** *Neuron*
Bennett, F. C., Bennett, M. L., Yaqoob, F., Mulinyawe, S. B., Grant, G. A., Hayden Gephart, M., Plowey, E. D., Barres, B. A.
2018
- **Single-Cell RNA-Sequencing in Glioma** *CURRENT ONCOLOGY REPORTS*
Johnson, E., Dickerson, K. L., Connolly, I. D., Gephart, M.
2018; 20 (5): 42
- **A review of potential applications of MR-guided focused ultrasound for targeting brain tumor therapy** *NEUROSURGICAL FOCUS*
Lamsam, L., Johnson, E., Connolly, I. D., Wintermark, M., Gephart, M.
2018; 44 (2): E10
- **Massive Intradural Chondroma Masquerading as Lower Body Parkinsonism.** *Cureus*
Connolly, I. D., Johnson, E., Lummus, S., Hayden Gephart, M.
2018; 10 (1): e2099
- **Clinical factors associated with mortality within three months after radiosurgery of asymptomatic brain metastases from non-small cell lung cancer.** *Journal of neuro-oncology*
Kakusa, B., Han, S., Aggarwal, S., Liu, B., Li, G., Soltys, S., Hayden Gephart, M.
2018
- **Long-Term Update of Stereotactic Radiosurgery for Benign Spinal Tumors.** *Neurosurgery*
Chin, A. L., Fujimoto, D., Kumar, K. A., Tupper, L., Mansour, S., Chang, S. D., Adler, J. R., Gibbs, I. C., Hancock, S. L., Dodd, R., Li, G., Gephart, M. H., Ratliff, et al
2018
- **Dynamin impacts homology-directed repair and breast cancer response to chemotherapy.** *The Journal of clinical investigation*
Chernikova, S. B., Nguyen, R. B., Truong, J. T., Mello, S. S., Stafford, J. H., Hay, M. P., Olson, A., Solow-Cordero, D. E., Wood, D. J., Henry, S., von Eyben, R., Deng, L., Gephart, et al
2018
- **Chromosome-scale mega-haplotypes enable digital karyotyping of cancer aneuploidy** *NUCLEIC ACIDS RESEARCH*
Bell, J. M., Lau, B. T., Greer, S. U., Wood-Bouwens, C., Xia, L. C., Connolly, I. D., Gephart, M. H., Ji, H. P.

2017; 45 (19): e162

- **A pilot study on the use of cerebrospinal fluid cell-free DNA in intramedullary spinal ependymoma** *JOURNAL OF NEURO-ONCOLOGY*
Connolly, I., Li, Y., Pan, W., Johnson, E., You, L., Vogel, H., Ratliff, J., Gephart, M.
2017; 135 (1): 29–36
- **Commentary: Treatment Considerations for Patients With Epidermal Growth Factor Receptor-Mutated Non-Small Cell Lung Cancer Brain Metastases in the Era of Tyrosine Kinase Inhibitors.** *Neurosurgery*
Vaca, S. D., Connolly, I. D., Ho, C., Neal, J., Hayden Gephart, M.
2017
- **Real-Time Fluoroscopic and C-Arm Computed Tomography Evaluation of Ommaya Reservoir Integrity.** *Cureus*
Moraff, A. M., Hayden Gephart, M., Shuer, L. M., Heit, J. J.
2017; 9 (3)
- **Comparison of porcine and bovine collagen dural substitutes in posterior fossa decompression for Chiari I malformation in adults.** *World neurosurgery*
Lee, C. K., Mokhtari, T., Connolly, I. D., Li, G., Shuer, L. M., Chang, S. D., Steinberg, G. K., Gephart, M. H.
2017
- **New tools for studying microglia in the mouse and human CNS.** *Proceedings of the National Academy of Sciences of the United States of America*
Bennett, M. L., Bennett, F. C., Liddelow, S. A., Ajami, B., Zamanian, J. L., Fernhoff, N. B., Mulinyawe, S. B., Bohlen, C. J., Adil, A., Tucker, A., Weissman, I. L., Chang, E. F., Li, et al
2016; 113 (12): E1738-46
- **The "Liquid Biopsy": the Role of Circulating DNA and RNA in Central Nervous System Tumors.** *Current neurology and neuroscience reports*
Connolly, I. D., Li, Y., Gephart, M. H., Nagpal, S.
2016; 16 (3): 25-?
- **Foramen Magnum Meningioma with Brainstem Compression During Pregnancy.** *World neurosurgery*
Choudhri, O., Ravikumar, V. K., Gephart, M. H.
2016; 91: 671.e9–671.e12
- **Genetic and molecular distinctions in spinal ependymomas: A review.** *Clinical neurology and neurosurgery*
Connolly, I. D., Ali, R., Li, Y., Gephart, M. H.
2015; 139: 210-215
- **Cushing's disease: predicting long-term remission after surgical treatment** *NEUROSURGICAL FOCUS*
Pendharkar, A. V., Sussman, E. S., Ho, A. L., Gephart, M. G., Katznelson, L.
2015; 38 (2)
- **Resident Away Rotations Allow Adaptive Neurosurgical Training.** *Neurosurgery*
Gephart, M. H., Derstine, P., Oyesiku, N. M., Grady, M. S., Burchiel, K., Batjer, H. H., Popp, A. J., Barbaro, N. M.
2015
- **Cervical Fracture Stabilization within 72 Hours of Injury is Associated with Decreased Hospitalization Costs with Comparable Perioperative Outcomes in a Propensity Score-Matched Cohort.** *Cureus*
Medress, Z., Arrigo, R. T., Hayden Gephart, M., Zygourakis, C. C., Boakye, M.
2015; 7 (1)
- **Molecular and Genetic Predictors of Breast-to-Brain Metastasis: Review and Case Presentation.** *Cureus*
Medress, Z., Hayden Gephart, M.
2015; 7 (1)
- **Rehospitalization and emergency department use rates before and after vagus nerve stimulation for epilepsy: use of state databases to provide longitudinal data across multiple clinical settings.** *Neuromodulation*
Kalanithi, P. S., Arrigo, R. T., Tran, P., Gephart, M. H., Shuer, L., Fisher, R., Boakye, M.
2014; 17 (1): 60-64
- **Neuropilin-2 contributes to tumorigenicity in a mouse model of Hedgehog pathway medulloblastoma.** *Journal of neuro-oncology*
Hayden Gephart, M. G., Su, Y. S., Bandara, S., Tsai, F., Hong, J., Conley, N., Rayburn, H., Milenkovic, L., Meyer, T., Scott, M. P.
2013; 115 (2): 161-168

- **Cochlea radiation dose correlates with hearing loss after stereotactic radiosurgery of vestibular schwannoma.** *World neurosurgery*
Hayden Gephart, M. G., Hansasuta, A., Balise, R. R., Choi, C., Sakamoto, G. T., Venteicher, A. S., Soltys, S. G., Gibbs, I. C., Harsh, G. R., Adler, J. R., Chang, S. D.
2013; 80 (3-4): 359-363
- **Endoscopic third ventriculostomy and CyberKnife radiosurgery of a pineal parenchymal tumor of intermediate differentiation** *Cureus*
Chow, K. H., Hayden, M. G., Ziskin, J., Vogel, H., Li, G. H.
2013; 5 (11): e149
- **Using bioabsorbable fixation systems in the treatment of pediatric skull deformities leads to good outcomes and low morbidity** *Child's Nervous System*
Hayden Gephart, M. G., Woodard, J. I., Arrigo, R. T., Lorenz, H. P., Schendel, S. A., Edwards, M. S., Guzman, R.
2013; 29 (2): 297-301
- **A Population-Based Study of Inpatient Outcomes After Operative Management of Nontraumatic Intracerebral Hemorrhage in the United States** *WORLD NEUROSURGERY*
Patil, C. G., Alexander, A. L., Gephart, M. G., Lad, S. P., Arrigo, R. T., Boakye, M.
2012; 78 (6): 640-645
- **Trends in the diagnosis and treatment of pediatric primary spinal cord tumors** *Clinical article JOURNAL OF NEUROSURGERY-PEDIATRICS*
Gephart, M. G., Lober, R. M., Arrigo, R. T., Zygourakis, C. C., Guzman, R., Boakye, M., Edwards, M. S., Fisher, P. G.
2012; 10 (6): 555-559
- **Trends in the diagnosis and treatment of pediatric primary spinal cord tumors.** *Journal of neurosurgery. Pediatrics*
Hayden Gephart, M. G., Lober, R. M., Arrigo, R. T., Zygourakis, C. C., Guzman, R., Boakye, M., Edwards, M. S., Fisher, P. G.
2012; 10 (6): 555-559
- **Venous Thromboembolism After Thoracic/Thoracolumbar Spinal Fusion** *WORLD NEUROSURGERY*
Gephart, M. G., Zygourakis, C. C., Arrigo, R. T., Kalanithi, P. S., Lad, S. P., Boakye, M.
2012; 78 (5): 545-552
- **Venous thromboembolism after thoracic/thoracolumbar spinal fusion** *World Neurosurgery*
Hayden Gephart, M. G., Zygourakis, C. C., Arrigo, R. T., Kalanithi, P. S., Lad, S. P., Boakye, M.
2012; 78 (5): 545-552
- **Retrospective, propensity score-matched cohort study examining timing of fracture fixation for traumatic thoracolumbar fractures** *Journal of Neurotrauma*
Boakye, M., Arrigo, R. T., Hayden Gephart, M. G., Zygourakis, C. C., Lad, S.
2012; 29 (12): 2220-2225
- **Multisession Stereotactic Radiosurgery for Vestibular Schwannomas: Single-Institution Experience With 383 Cases** *NEUROSURGERY*
Hansasuta, A., Choi, C. Y., Gibbs, I. C., Soltys, S. G., Tse, V. C., Lieberson, R. E., Hayden, M. G., Sakamoto, G. T., Harsh, G. R., Adler, J. R., Chang, S. D.
2011; 69 (6): 1200-1209
- **Enhanced presentation of MHC class Ia, Ib and class II-restricted peptides encapsulated in biodegradable nanoparticles: a promising strategy for tumor immunotherapy** *JOURNAL OF TRANSLATIONAL MEDICINE*
Ma, W., Smith, T., Bogin, V., Zhang, Y., Ozkan, C., Ozkan, M., Hayden, M., Schroter, S., Carrier, E., Messmer, D., Kumar, V., Mineev, B.
2011; 9
- **Perioperative posterior reversible encephalopathy syndrome in 2 pediatric neurosurgery patients with brainstem ependymoma** *Report of 2 cases JOURNAL OF NEUROSURGERY-PEDIATRICS*
Gephart, M. G., Taft, B. P., Giese, A., Guzman, R., Edwards, M. S.
2011; 7 (3): 235-237
- **Maria Auxiliadora Hospital in Lima, Peru as a model for neurosurgical outreach to international charity hospitals** *CHILDS NERVOUS SYSTEM*
Hayden, M. G., Hughes, S., Hahn, E. J., Aryan, H. E., Levy, M. L., Jandial, R.
2011; 27 (1): 145-148
- **Primary Pediatric Skull Tumors** *PEDIATRIC NEUROSURGERY*
Gephart, M. G., Colglazier, E., Paulk, K. L., Vogel, H., Guzman, R., Edwards, M. S.
2011; 47 (3): 198-203

- **Primary pediatric skull tumors** *Pediatric Neurosurgery*
Hayden Gephart, M. G., Colglazier, E., Paulk, K. L., Vogel, H., Guzman, R., Edwards, M. S.
2011; 47 (3): 198-203
- **Loss of SMARCB1/INI1 expression in poorly differentiated chordomas** *ACTA NEUROPATHOLOGICA*
Mobley, B. C., McKenney, J. K., Bangs, C. D., Callahan, K., Yeom, K. W., Schneppenheim, R., Hayden, M. G., Cherry, A. M., Gokden, M., Edwards, M. S., Fisher, P. G., Vogel, H.
2010; 120 (6): 745-753
- **Variations of Endoscopic and Open Repair of Metopic Craniosynostosis** *JOURNAL OF CRANIOFACIAL SURGERY*
Keshavarzi, S., Hayden, M. G., Ben-Haim, S., Meltzer, H. S., Cohen, S. R., Levy, M. L.
2009; 20 (5): 1439-1444
- **Non-surgical management of hormone-secreting pituitary tumors** *JOURNAL OF CLINICAL NEUROSCIENCE*
Patil, C. G., Hayden, M., Katznelson, L., Chang, S. D.
2009; 16 (8): 985-993
- **National trends in vertebral augmentation procedures for the treatment of vertebral compression fractures** *SURGICAL NEUROLOGY*
Lad, S. P., Patil, C. G., Lad, E. M., Hayden, M. G., Boakye, M.
2009; 71 (5): 580-585
- **The evolution of cerebral revascularization surgery** *NEUROSURGICAL FOCUS*
Hayden, M. G., Lee, M., Guzman, R., Steinberg, G. K.
2009; 26 (5)
- **Von Hippel-Lindau disease in pregnancy: A brief review** *JOURNAL OF CLINICAL NEUROSCIENCE*
Hayden, M. G., Gephart, R., Kalanithi, P., Chou, D.
2009; 16 (5): 611-613
- **Recurring osteoma within a calcium phosphate bone cement cranioplasty: case report.** *Neurosurgery*
Hayden, M. G., Guzman, R., Dulai, M. S., Mobley, B. C., Edwards, M. S.
2009; 64 (4): E775-6
- **Cerebellopontine angle cyst compressing the vagus nerve: case report.** *Neurosurgery*
Hayden, M. G., Tornabene, S. V., Nguyen, A., Thekdi, A., Alksne, J. F.
2007; 60 (6): E1150-?
- **Pediatric concussions in sports; a simple and rapid assessment tool for concussive injury in children and adults** *Child's Nervous System*
Hayden, M. G., Jandial, R., Duenas, H. A., Mahajan, R., Levy, M.
2007; 23 (4): 431-435
- **Melatonin secretion in urban and rural Gambians** *Journal of Surgical Research*
Bickler, S. W., Williams, E., Hayden, M. G., Junger, W., Hoyt, D.
2007; 137 (2): 317-318