



David A. Solomon

Associate Professor of Pathology

CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

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Bio

CLINICAL FOCUS

- Neuropathology
- Tumor neuropathology
- Molecular neuropathology
- Brain tumors
- Nerve sheath tumors

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Pathology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director of Neuropathology, Stanford University School of Medicine, (2024- present)
- Associate Director of Neuropathology Fellowship Program, Stanford University School of Medicine, (2024- present)

HONORS AND AWARDS

- Benjamin Castleman Award (role: PI/mentor), United States and Canada Academy of Pathology (USCAP) (2026)
- R01 NS140465, Role: PD/PI, National Institute of Neurological Disorders and Stroke, NIH (2025)
- Emerging Leader Award, The Ben & Catherine Ivy Foundation (2025)
- NF1 Next Generation Models Award, Gilbert Family Foundation (2024)
- Molecular Pathology Award (role: PI/mentor), Society for Neuro-Oncology (SNO) (2023)
- New Frontiers Research Award, UCSF Program for Breakthrough Biomedical Research (2022)

- Rubinstein Award (role: PI/mentor), American Association for Neuropathologists (AANP) (2022)
- Cotran Early Career Investigator Award, American Society for Investigative Pathology (ASIP) (2022)
- Moore Award (role: PI/mentor), American Association for Neuropathologists (AANP) (2021)
- Ramzi S. Cotran Young Investigator Award, United States and Canada Academy of Pathology (USCAP) (2020)
- Rubinstein Award, American Association for Neuropathologists (AANP) (2019)
- Developmental Research Program Award, UCSF Brain Tumor SPORE (2019)
- UCSF Physician-Scientist Scholar Program, University of California, San Francisco (2016)
- NIH Director's Early Independence Award (DP5), National Institutes of Health (NIH) Office of the Director (2015)
- Career Development Research Award, UCSF Brain Tumor SPORE (2015)
- Best abstract presentation at USCAP annual meeting, Hans Popper Hepatopathology Society (2015)
- Best abstract presentation at USCAP annual meeting, International Society of Bone and Soft Tissue Pathology (2014)
- Stowell-Orbison Award, United States and Canada Academy of Pathology (USCAP) (2014)
- Julius R. Krevans Award for clinical excellence by an UCSF intern, San Francisco General Hospital (2013)
- Stowell-Orbison Award, United States and Canada Academy of Pathology (USCAP) (2013)
- Harold M. Weintraub Graduate Student Award, Fred Hutchinson Cancer Research Center (2012)
- Future Leaders in Basic Cancer Research Award, American Association for Cancer Research (AACR) (2012)
- Robert Dickson Graduate Prize, Lombardi Cancer Center, Georgetown University Medical Center (2011)
- Clifford C. Kaslow Research Achievement Award, Georgetown University Medical Center (2011)
- Best poster presentation, Lombardi Research Day, Lombardi Cancer Center, Georgetown University Medical Center (2011)
- Robert Dickson Graduate Prize, Lombardi Cancer Center, Georgetown University Medical Center (2010)
- Best poster presentation, Student Research Day, Georgetown University Biomedical Graduate Exposition (2010)
- Best poster presentation, Student Research Day, Georgetown University Biomedical Graduate Exposition (2009)
- Clifford C. Kaslow Research Achievement Award, Georgetown University Medical Center (2008)
- Best poster presentation, Student Research Day, Georgetown University Biomedical Graduate Exposition (2008)
- Strauss Physician-Scientist Training Fellowship, Georgetown University School of Medicine (2004)
- Winning image, Cell of the month image competition, Nature journals (2004)
- Scholar-in-training travel grant to Genes, Environment & Disease Conference, Harvard Medical School, National Institute of Environmental Health Sciences (NIEHS/NIH) (2003)
- Howard Hughes Medical Institute student research grants, College of William and Mary Undergraduate Science Education and Research Program (2000)
- William and Mary Monroe Scholar, College of William and Mary (1998)
- National Merit Scholar, National Merit Scholarship Program (1998)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- 2026 Annual Meeting Education Day Co-Chair, Society for Neuro-Oncology (SNO) (2026 - 2026)
- Adult Molecular Tumor Board Leadership, Society for Neuro-Oncology (SNO) (2025 - present)
- Molecular Pathology Track Chair, Society for Neuro-Oncology (SNO) (2024 - 2025)
- Senior Associate Editor, Brain Pathology (2020 - present)
- Pediatric Cancer Research Grants Scientific Review Committee standing member, American Association for Cancer Research (AACR) (2020 - 2023)
- Editorial board, Acta Neuropathologica (2018 - present)
- Awards Committee member, American Association of Neuropathologists (AANP) (2019 - 2022)

- Member, American Society for Investigative Pathology (ASIP) (2018 - present)
- Member, Society for Neuro-Oncology (SNO) (2018 - present)
- Awards Committee member, United States and Canada Academy of Pathology (USCAP) (2017 - 2020)
- Member, American Association for Cancer Research (AACR) (2016 - present)
- Member, American Association of Neuropathologists (AANP) (2015 - present)
- Member, United States and Canada Academy of Pathology (USCAP) (2013 - present)
- Member, American Association for the Advancement of Science (AAAS) (2002 - present)

PROFESSIONAL EDUCATION

- Board Certification, American Board of Pathology , Anatomic Pathology & Neuropathology (2017)
- Neuropathology Fellowship, University of California, San Francisco , Neuropathology (2016)
- Pathology Residency, University of California, San Francisco , Anatomic Pathology (2014)
- Ph.D., Georgetown University School of Medicine , Tumor Biology (2012)
- M.D., Georgetown University School of Medicine , Medicine (2012)
- Post-baccalaureate research, University of Cincinnati College of Medicine , Cancer Biology (2004)
- B.S., College of William and Mary , Molecular and Cellular Biology; Chemistry (2002)

LINKS

- Solomon Lab website: <https://med.stanford.edu/solomon-lab.html>
- Research data sharing (histology): https://figshare.com/authors/David_Solomon/4497931
- Research data sharing (genomics): <https://www.ncbi.nlm.nih.gov/gds/?term=solomon%20da>
- my Google Scholar profile: <https://scholar.google.com/citations?user=Zti6hToAAAAJ&hl=en>

Publications

PUBLICATIONS

- **A genomically-tailored multi-agent precision medicine clinical trial for adults with recurrent glioblastoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Chen, J., Oberheim Bush, N. A., Grabowsky, J. A., Kline, C., Kroetz, D. L., Taylor, J. W., Villanueva-Meyer, J., Molinaro, A. M., de Groot, J. F., Butowski, N. A., Tedesco, M., Rabbitt, J., Phillips, et al
2026
- **DNA methylation-based classification of kidney neoplasms.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Papanicolau-Sengos, A., Singh, O., Park, K., Snuderl, M., Tretiakova, M., Merino, M., Stohr, B., Simko, J., Deng, F. M., Chan, E., Wu, J., Barreto, J., Gupta, et al
2025: 100884
- **Longitudinal profiling of IDH-mutant astrocytomas reveals acquired RAS-MAPK pathway mutations associated with inferior survival** *NEURO-ONCOLOGY ADVANCES*
Almaraz, E., Guerra, G. A., Al-Adli, N. N., Young, J. S., Dada, A., Quintana, D., Taylor, J. W., Bush, N., Clarke, J. L., Butowski, N. A., de Groot, J., Pekmezci, M., Perry, et al
2025; 7 (1): vdaf024
- **Longitudinal multimodal profiling of IDH-wildtype glioblastoma reveals the molecular evolution and cellular phenotypes underlying prognostically different treatment responses.** *Neuro-oncology*
Lucas, C. G., Al-Adli, N. N., Young, J. S., Gupta, R., Morshed, R. A., Wu, J., Ravindranathan, A., Shai, A., Oberheim Bush, N. A., Taylor, J. W., de Groot, J., Villanueva-Meyer, J. E., Pekmezci, et al
2025; 27 (1): 89-105

- **"De novo replication repair deficient glioblastoma, IDH-wildtype" is a distinct glioblastoma subtype in adults that may benefit from immune checkpoint blockade.** *Acta neuropathologica*
Hadad, S., Gupta, R., Oberheim Bush, N. A., Taylor, J. W., Villanueva-Meyer, J. E., Young, J. S., Wu, J., Ravindranathan, A., Zhang, Y., Warriar, G., McCoy, L., Shai, A., Pekmezci, et al
2023; 147 (1): 3
- **Novel SOX10 indel mutations drive schwannomas through impaired transactivation of myelination gene programs.** *Neuro-oncology*
Williams, E. A., Ravindranathan, A., Gupta, R., Stevers, N. O., Suwala, A. K., Hong, C., Kim, S., Yuan, J. B., Wu, J., Barreto, J., Lucas, C. G., Chan, E., Pekmezci, et al
2023; 25 (12): 2221-2236
- **Somatic mosaic SOX10 indel mutations underlie a form of segmental schwannomatosis.** *Acta neuropathologica*
Terry, M., Gupta, R., Ravindranathan, A., Wu, J., Chan, E., Bollen, A. W., Chang, S. M., Berger, M. S., Jacques, L., Solomon, D. A.
2023; 146 (6): 857-860
- **Amplification of the PLAG-family genes-PLAGL1 and PLAGL2-is a key feature of the novel tumor type CNS embryonal tumor with PLAGL amplification.** *Acta neuropathologica*
Keck, M. K., Sill, M., Wittmann, A., Joshi, P., Stichel, D., Beck, P., Okonechnikow, K., Sievers, P., Wefers, A. K., Roncaroli, F., Avula, S., McCabe, M. G., Hayden, et al
2023; 145 (1): 49-69
- **Prospective genomically guided identification of "early/evolving" and "undersampled" IDH-wildtype glioblastoma leads to improved clinical outcomes.** *Neuro-oncology*
Zhang, Y., Lucas, C. G., Young, J. S., Morshed, R. A., McCoy, L., Oberheim Bush, N. A., Taylor, J. W., Daras, M., Butowski, N. A., Villanueva-Meyer, J. E., Cha, S., Wrensch, M., Wiencke, et al
2022; 24 (10): 1749-1762
- **Multiplatform molecular analyses refine classification of gliomas arising in patients with neurofibromatosis type 1.** *Acta neuropathologica*
Lucas, C. G., Sloan, E. A., Gupta, R., Wu, J., Pratt, D., Vasudevan, H. N., Ravindranathan, A., Barreto, J., Williams, E. A., Shai, A., Whipple, N. S., Bruggers, C. S., Maher, et al
2022; 144 (4): 747-765
- **Comprehensive analysis of diverse low-grade neuroepithelial tumors with FGFR1 alterations reveals a distinct molecular signature of rosette-forming glioneuronal tumor.** *Acta neuropathologica communications*
Lucas, C. G., Gupta, R., Doo, P., Lee, J. C., Cadwell, C. R., Ramani, B., Hofmann, J. W., Sloan, E. A., Kleinschmidt-DeMasters, B. K., Lee, H. S., Wood, M. D., Grafe, M., Born, et al
2020; 8 (1): 151
- **Pediatric bithalamic gliomas have a distinct epigenetic signature and frequent EGFR exon 20 insertions resulting in potential sensitivity to targeted kinase inhibition.** *Acta neuropathologica*
Mondal, G., Lee, J. C., Ravindranathan, A., Villanueva-Meyer, J. E., Tran, Q. T., Allen, S. J., Barreto, J., Gupta, R., Doo, P., Van Ziffle, J., Onodera, C., Devine, P., Grenert, et al
2020; 139 (6): 1071-1088
- **Gliomas arising in the setting of Li-Fraumeni syndrome stratify into two molecular subgroups with divergent clinicopathologic features.** *Acta neuropathologica*
Sloan, E. A., Hilz, S., Gupta, R., Cadwell, C., Ramani, B., Hofmann, J., Kline, C. N., Banerjee, A., Reddy, A., Oberheim Bush, N. A., Chang, S., Braunstein, S., Chang, et al
2020; 139 (5): 953-957
- **Recurrent KBTBD4 small in-frame insertions and absence of DROSHA deletion or DICER1 mutation differentiate pineal parenchymal tumor of intermediate differentiation (PPTID) from pineoblastoma.** *Acta neuropathologica*
Lee, J. C., Mazor, T., Lao, R., Wan, E., Diallo, A. B., Hill, N. S., Thangaraj, N., Wendelsdorf, K., Samuel, D., Kline, C. N., Banerjee, A., Auguste, K., Raffel, et al
2019; 137 (5): 851-854
- **A requirement for STAG2 in replication fork progression creates a targetable synthetic lethality in cohesin-mutant cancers.** *Nature communications*
Mondal, G., Stevers, M., Goode, B., Ashworth, A., Solomon, D. A.
2019; 10 (1): 1686

- **The genetic landscape of gliomas arising after therapeutic radiation.** *Acta neuropathologica*
López, G. Y., Van Ziffle, J., Onodera, C., Grenert, J. P., Yeh, I., Bastian, B. C., Clarke, J., Oberheim Bush, N. A., Taylor, J., Chang, S., Butowski, N., Banerjee, A., Mueller, et al
2019; 137 (1): 139-150
- **Well-differentiated papillary mesothelioma of the peritoneum is genetically defined by mutually exclusive mutations in TRAF7 and CDC42.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Stevens, M., Rabban, J. T., Garg, K., Van Ziffle, J., Onodera, C., Grenert, J. P., Yeh, I., Bastian, B. C., Zaloudek, C., Solomon, D. A.
2019; 32 (1): 88-99
- **Myxoid glioneuronal tumor of the septum pellucidum and lateral ventricle is defined by a recurrent PDGFRA p.K385 mutation and DNT-like methylation profile.** *Acta neuropathologica*
Solomon, D. A., Korshunov, A., Sill, M., Jones, D. T., Kool, M., Pfister, S. M., Fan, X., Bannykh, S., Hu, J., Danielpour, M., Li, R., Johnston, J., Cham, et al
2018; 136 (2): 339-343
- **Adenomatoid tumors of the male and female genital tract are defined by TRAF7 mutations that drive aberrant NF-κB pathway activation.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Goode, B., Joseph, N. M., Stevens, M., Van Ziffle, J., Onodera, C., Talevich, E., Grenert, J. P., Yeh, I., Bastian, B. C., Phillips, J. J., Garg, K., Rabban, J. T., Zaloudek, et al
2018; 31 (4): 660-673
- **Multinodular and vacuolating neuronal tumor of the cerebrum is a clonal neoplasm defined by genetic alterations that activate the MAP kinase signaling pathway.** *Acta neuropathologica*
Pekmezci, M., Stevens, M., Phillips, J. J., Van Ziffle, J., Bastian, B. C., Tsankova, N. M., Kleinschmidt-DeMasters, B. K., Rosenblum, M. K., Tihan, T., Perry, A., Solomon, D. A.
2018; 135 (3): 485-488
- **A recurrent kinase domain mutation in PRKCA defines chordoid glioma of the third ventricle.** *Nature communications*
Goode, B., Mondal, G., Hyun, M., Ruiz, D. G., Lin, Y. H., Van Ziffle, J., Joseph, N. M., Onodera, C., Talevich, E., Grenert, J. P., Hewedi, I. H., Snuderl, M., Brat, et al
2018; 9 (1): 810
- **Targeted next-generation sequencing of pediatric neuro-oncology patients improves diagnosis, identifies pathogenic germline mutations, and directs targeted therapy.** *Neuro-oncology*
Kline, C. N., Joseph, N. M., Grenert, J. P., van Ziffle, J., Talevich, E., Onodera, C., Aboian, M., Cha, S., Raleigh, D. R., Braunstein, S., Torkildson, J., Samuel, D., Bloomer, et al
2017; 19 (5): 699-709
- **The genomic landscape of the Ewing Sarcoma family of tumors reveals recurrent STAG2 mutation.** *PLoS genetics*
Brohl, A. S., Solomon, D. A., Chang, W., Wang, J., Song, Y., Sindiri, S., Patidar, R., Hurd, L., Chen, L., Shern, J. F., Liao, H., Wen, X., Gerard, et al
2014; 10 (7): e1004475
- **Frequent truncating mutations of STAG2 in bladder cancer.** *Nature genetics*
Solomon, D. A., Kim, J. S., Bondaruk, J., Shariat, S. F., Wang, Z. F., Elkahloun, A. G., Ozawa, T., Gerard, J., Zhuang, D., Zhang, S., Navai, N., Siefker-Radtke, A., Phillips, et al
2013; 45 (12): 1428-30
- **Mutational inactivation of STAG2 causes aneuploidy in human cancer.** *Science (New York, N.Y.)*
Solomon, D. A., Kim, T., Diaz-Martinez, L. A., Fair, J., Elkahloun, A. G., Harris, B. T., Toretsky, J. A., Rosenberg, S. A., Shukla, N., Ladanyi, M., Samuels, Y., James, C. D., Yu, et al
2011; 333 (6045): 1039-43
- **Pharmacologic inhibition of cyclin-dependent kinases 4 and 6 arrests the growth of glioblastoma multiforme intracranial xenografts.** *Cancer research*
Michaud, K., Solomon, D. A., Oermann, E., Kim, J. S., Zhong, W. Z., Prados, M. D., Ozawa, T., James, C. D., Waldman, T.
2010; 70 (8): 3228-38
- **Sample type bias in the analysis of cancer genomes.** *Cancer research*
Solomon, D. A., Kim, J. S., Ransom, H. W., Sibenaller, Z., Ryken, T., Jean, W., Bigner, D., Yan, H., Waldman, T.
2009; 69 (14): 5630-3

- **Identification of p18 INK4c as a tumor suppressor gene in glioblastoma multiforme.** *Cancer research*
Solomon, D. A., Kim, J. S., Jenkins, S., Ressom, H., Huang, M., Coppa, N., Mabanta, L., Bigner, D., Yan, H., Jean, W., Waldman, T.
2008; 68 (8): 2564-9
- **Cyclin D1 splice variants. Differential effects on localization, RB phosphorylation, and cellular transformation.** *The Journal of biological chemistry*
Solomon, D. A., Wang, Y., Fox, S. R., Lambeck, T. C., Giesting, S., Lan, Z., Senderowicz, A. M., Conti, C. J., Knudsen, E. S.
2003; 278 (32): 30339-47
- **Intracranial mesenchymal tumor, FET::CREB fusion-positive: an integrative analysis of 81 cases.** *Neuro-oncology*
Rajan, S., Chung, H. J., Wu, Z., Singh, O., Dazelle, K., Abdullaev, Z., Tyagi, M., Ferrone, C. K., Raffeld, M., Lee, I., Gagan, J., Chen, J., Cathcart, et al
2026
- **Tumor heterogeneity underlies clinical outcome and MEK inhibitor response in somatic NF1-mutant glioblastoma** *JCI INSIGHT*
Pan, S., Mirchia, K., Payne, E., Liu, S., Al-Adli, N., Peeran, Z., Shukla, P., Young, J. S., Gupta, R., Wu, J., Pak, J., Ozawa, T., Na, et al
2025; 10 (18)
- **PLAG1 fusions define a third subtype of CNS embryonal tumor with PLAG family gene alteration.** *Acta neuropathologica*
Keck, M. K., Al-Hussaini, M., Amayiri, N., Yiadom, A. A., Chamyan, G., Cheesman, E., Faure-Conter, C., Garcia-Ariza, M., Gauchotte, G., Hasselblatt, M., Jorgensen, M., Kilday, J. P., Lamas, et al
2025; 150 (1): 12
- **cIMPACT-NOW update 10: Recommendations for defining new types for central nervous system tumor classification.** *Brain pathology (Zurich, Switzerland)*
Hawkins, C., Aldape, K., Capper, D., von Deimling, A., Giannini, C., Gilbert, M. R., Jacques, T. S., Jones, D., Komori, T., Louis, D. N., Mueller, S., Nasrallah, M., Orr, et al
2025: e70018
- **cIMPACT-NOW update 9: Recommendations on utilization of genome-wide DNA methylation profiling for central nervous system tumor diagnostics.** *Neuro-oncology advances*
Aldape, K., Capper, D., von Deimling, A., Giannini, C., Gilbert, M. R., Hawkins, C., Hench, J., Jacques, T. S., Jones, D., Louis, D. N., Mueller, S., Orr, B. A., Nasrallah, et al
2025; 7 (1): vdae228
- **Molecular Testing for the World Health Organization Classification of Central Nervous System Tumors: A Review.** *JAMA oncology*
Horbinski, C., Solomon, D. A., Lukas, R. V., Packer, R. J., Brastianos, P., Wen, P. Y., Snuderl, M., Berger, M. S., Chang, S., Fouladi, M., Phillips, J. J., Nabors, B., Brat, et al
2024
- **Identification of Genomic Biomarkers of Disease Progression and Survival in Primary CNS Lymphoma.** *Blood advances*
Geng, H., Mo, S. S., Chen, L., Ballapuram, A., Tsang, M., Lu, M., Rauschecker, A. M., Wen, K. W., Devine, W. P., Solomon, D. A., Rubenstein, J. L.
2024
- **Toward standardized brain tumor tissue processing protocols in neuro-oncology: a perspective for gliomas and beyond.** *Frontiers in oncology*
Rodriguez, A., Ahluwalia, M. S., Bettgowda, C., Brem, H., Carter, B. S., Chang, S., Das, S., Eberhart, C., Garzon-Muvdi, T., Hadjipanayis, C. G., Hawkins, C., Jacques, T. S., Khalessi, et al
2024; 14: 1471257
- **The Chlamydia trachomatis Inc Tri1 interacts with TRAF7 to displace native TRAF7 interacting partners.** *Microbiology spectrum*
Herrera, C. M., McMahon, E., Swaney, D. L., Sherry, J., Pha, K., Adams-Boone, K., Johnson, J. R., Krogan, N. J., Stevers, M., Solomon, D., Elwell, C., Engel, J.
2024; 12 (7): e0045324
- **Spatial genomic, biochemical and cellular mechanisms underlying meningioma heterogeneity and evolution.** *Nature genetics*
Lucas, C. G., Mirchia, K., Seo, K., Najem, H., Chen, W. C., Zakimi, N., Foster, K., Eaton, C. D., Cady, M. A., Choudhury, A., Liu, S. J., Phillips, J. J., Magill, et al
2024; 56 (6): 1121-1133
- **Whole tumor analysis reveals early origin of the TERT promoter mutation and intercellular heterogeneity in TERT expression.** *Neuro-oncology*

- Appin, C. L., Hong, C., Suwala, A. K., Hiltz, S., Mathur, R., Solomon, D. A., Smirnov, I. V., Stevers, N. O., Shai, A., Wang, A., Berger, M. S., Chang, S. M., Phillips, et al
2024; 26 (4): 640-652
- **Everolimus for Children With Recurrent or Progressive Low-Grade Glioma: Results From the Phase II PNOC001 Trial.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Haas-Kogan, D. A., Aboian, M. S., Minturn, J. E., Leary, S. E., Abdelbaki, M. S., Goldman, S., Elster, J. D., Kraya, A., Lueder, M. R., Ramakrishnan, D., von Reppert, M., Liu, K. X., Rokita, et al
2024; 42 (4): 441-451
 - **Glioblastoma evolution and heterogeneity from a 3D whole-tumor perspective.** *Cell*
Mathur, R., Wang, Q., Schupp, P. G., Nikolic, A., Hiltz, S., Hong, C., Grishanina, N. R., Kwok, D., Stevers, N. O., Jin, Q., Youngblood, M. W., Stasiak, L. A., Hou, et al
2024; 187 (2): 446-463.e16
 - **Targeted gene expression profiling predicts meningioma outcomes and radiotherapy responses.** *Nature medicine*
Chen, W. C., Choudhury, A., Youngblood, M. W., Polley, M. C., Lucas, C. G., Mirchia, K., Maas, S. L., Suwala, A. K., Won, M., Bayley, J. C., Harmanci, A. S., Harmanci, A. O., Klisch, et al
2023; 29 (12): 3067-3076
 - **Clinical, genomic, and epigenomic analyses of H3K27M-mutant diffuse midline glioma long-term survivors reveal a distinct group of tumors with MAPK pathway alterations.** *Acta neuropathologica*
Roberts, H. J., Ji, S., Picca, A., Sanson, M., Garcia, M., Snuderl, M., Schüller, U., Picart, T., Ducray, F., Green, A. L., Nakano, Y., Sturm, D., Abdullaev, et al
2023; 146 (6): 849-852
 - **Quantitative analysis of MGMT promoter methylation in glioblastoma suggests nonlinear prognostic effect.** *Neuro-oncology advances*
Gibson, D., Ravi, A., Rodriguez, E., Chang, S., Oberheim Bush, N., Taylor, J., Clarke, J., Solomon, D., Scheffler, A., Witte, J., Lambing, H., Okada, H., Berger, et al
2023; 5 (1): vdad115
 - **Loss of p16 expression is a sensitive marker of CDKN2A homozygous deletion in malignant meningiomas.** *Acta neuropathologica*
Tang, V., Lu, R., Mirchia, K., Van Ziffle, J., Devine, P., Lee, J., Phillips, J. J., Perry, A., Raleigh, D. R., Lucas, C. G., Solomon, D. A.
2023; 145 (4): 497-500
 - **Molecular profiling identifies at least 3 distinct types of post-transplant lymphoproliferative disorder involving CNS.** *Blood advances*
Guney, E., Lucas, C. G., Singh, K., Pekmezci, M., Fernandez-Pol, S., Mirchia, K., Toland, A., Vogel, H., Bannykh, S. I., Schafernak, K. T., Alexandrescu, S., Mobley, B. C., Powell, et al
2023
 - **Patterns of Extraneural Metastases in Children With Ependymoma.** *Journal of pediatric hematology/oncology*
Chan, P. P., Whipple, N. S., Ramani, B., Solomon, D. A., Zhou, H., Linscott, L. L., Kestle, J. R., Bruggers, C. S.
2023; 45 (2): e272-e278
 - **A single-cell atlas of glioblastoma evolution under therapy reveals cell-intrinsic and cell-extrinsic therapeutic targets.** *Nature cancer*
Wang, L., Jung, J., Babikir, H., Shamardani, K., Jain, S., Feng, X., Gupta, N., Rosi, S., Chang, S., Raleigh, D., Solomon, D., Phillips, J. J., Diaz, et al
2022; 3 (12): 1534-1552
 - **EANO - EURACAN - SNO Guidelines on circumscribed astrocytic gliomas, glioneuronal, and neuronal tumors.** *Neuro-oncology*
Rudà, R., Capper, D., Waldman, A. D., Pallud, J., Minniti, G., Kaley, T. J., Bouffet, E., Tabatabai, G., Aronica, E., Jakola, A. S., Pfister, S. M., Schiff, D., Lassman, et al
2022; 24 (12): 2015-2034
 - **EANO - EURACAN - SNO Guidelines on circumscribed astrocytic gliomas, glioneuronal, and neuronal tumors.** *Neuro-oncology*
Rudà, R., Capper, D., Waldman, A. D., Pallud, J., Minniti, G., Kaley, T. J., Bouffet, E., Tabatabai, G., Aronica, E., Jakola, A. S., Pfister, S. M., Schiff, D., Lassman, et al
2022; 24 (12): 2015-2034
 - **Expanded analysis of high-grade astrocytoma with piloid features identifies an epigenetically and clinically distinct subtype associated with neurofibromatosis type 1.** *Acta neuropathologica*
Cimino, P. J., Ketchum, C., Turakulov, R., Singh, O., Abdullaev, Z., Giannini, C., Pytel, P., Lopez, G. Y., Colman, H., Nasrallah, M. P., Santi, M., Fernandes, I. L., Nirschl, et al

2022

- **Conserved features of TERT promoter duplications reveal an activation mechanism that mimics hotspot mutations in cancer.** *Nature communications*
Barger, C. J., Suwala, A. K., Soczek, K. M., Wang, A. S., Kim, M. Y., Hong, C., Doudna, J. A., Chang, S. M., Phillips, J. J., Solomon, D. A., Costello, J. F.
2022; 13 (1): 5430
- **PI3K/AKT/mTOR signaling pathway activity in IDH-mutant diffuse glioma and clinical implications.** *Neuro-oncology*
Mohamed, E., Kumar, A., Zhang, Y., Wang, A. S., Chen, K., Lim, Y., Shai, A., Taylor, J. W., Clarke, J., Hiltz, S., Berger, M. S., Solomon, D. A., Costello, et al
2022; 24 (9): 1471-1481
- **Intratumor and informatic heterogeneity influence meningioma molecular classification.** *Acta neuropathologica*
Vasudevan, H. N., Choudhury, A., Hiltz, S., Villanueva-Meyer, J. E., Chen, W. C., Lucas, C. G., Braunstein, S. E., Oberheim Bush, N. A., Butowski, N., Pekmezci, M., McDermott, M. W., Perry, A., Solomon, et al
2022; 144 (3): 579-583
- **Recurrent ACVR1 mutations in posterior fossa ependymoma.** *Acta neuropathologica*
Pratt, D., Lucas, C. G., Selvam, P. P., Abdullaev, Z., Ketchum, C., Quezado, M., Armstrong, T. S., Gilbert, M. R., Papanicolau-Sengos, A., Raffeld, M., Choo-Wosoba, H., Chan, P., Whipple, et al
2022; 144 (2): 373-376
- **Targeted Next-Generation Sequencing Reveals Divergent Clonal Evolution in Components of Composite Pleomorphic Xanthoastrocytoma-Ganglioglioma.** *Journal of neuropathology and experimental neurology*
Lucas, C. G., Davidson, C. J., Alashari, M., Putnam, A. R., Whipple, N. S., Bruggers, C. S., Mendez, J. S., Cheshier, S. H., Walker, J. B., Ramani, B., Cadwell, C. R., Sullivan, D. V., Lu, et al
2022; 81 (8): 650-657
- **CXCL14 Promotes a Robust Brain Tumor-Associated Immune Response in Glioma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Kumar, A., Mohamed, E., Tong, S., Chen, K., Mukherjee, J., Lim, Y., Wong, C. M., Boosalis, Z., Shai, A., Pieper, R. O., Gupta, N., Perry, A., Bollen, et al
2022; 28 (13): 2898-2910
- **Intracranial mesenchymal tumors with FET-CREB fusion are composed of at least two epigenetic subgroups distinct from meningioma and extracranial sarcomas.** *Brain pathology (Zurich, Switzerland)*
Sloan, E. A., Gupta, R., Koelsche, C., Chiang, J., Villanueva-Meyer, J. E., Alexandrescu, S., Eschbacher, J. M., Wang, W., Mafra, M., Ud Din, N., Carr-Boyd, E., Watson, M., Punsoni, et al
2022; 32 (4): e13037
- **A genetically distinct pediatric subtype of primary CNS large B-cell lymphoma is associated with favorable clinical outcome.** *Blood advances*
Güney, E., Lucas, C. G., Qi, Z., Yu, J., Zhang, R., Ohgami, R. S., Rubenstein, J. L., Boué, D. R., Schafermak, K., Wertheim, G. B., Dahiya, S., Giulino-Roth, L., Attarbaschi, et al
2022; 6 (10): 3189-3193
- **Meningioma DNA methylation groups identify biological drivers and therapeutic vulnerabilities.** *Nature genetics*
Choudhury, A., Magill, S. T., Eaton, C. D., Prager, B. C., Chen, W. C., Cady, M. A., Seo, K., Lucas, C. G., Casey-Clyde, T. J., Vasudevan, H. N., Liu, S. J., Villanueva-Meyer, J. E., Lam, et al
2022; 54 (5): 649-659
- **Combining radiomics and deep convolutional neural network features from preoperative MRI for predicting clinically relevant genetic biomarkers in glioblastoma.** *Neuro-oncology advances*
Calabrese, E., Rudie, J. D., Rauschecker, A. M., Villanueva-Meyer, J. E., Clarke, J. L., Solomon, D. A., Cha, S.
2022; 4 (1): vdac060
- **High-grade glioma with pleomorphic and pseudopapillary features (HPAP): a proposed type of circumscribed glioma in adults harboring frequent TP53 mutations and recurrent monosomy 13.** *Acta neuropathologica*
Pratt, D., Abdullaev, Z., Papanicolau-Sengos, A., Ketchum, C., Panneer Selvam, P., Chung, H. J., Lee, I., Raffeld, M., Gilbert, M. R., Armstrong, T. S., Pytel, P., Borys, E., Klonoski, et al
2022; 143 (3): 403-414

- **Activating NTRK2 and ALK receptor tyrosine kinase fusions extend the molecular spectrum of pleomorphic xanthoastrocytomas of early childhood: a diagnostic overlap with infant-type hemispheric glioma.** *Acta neuropathologica*
Lucas, C. G., Abdullaev, Z., Bruggers, C. S., Mirchia, K., Whipple, N. S., Alashari, M. M., Lowichik, A., Cheshier, S., Phillips, J. J., Devine, P., Solomon, D. A., Quezado, M., Aldape, et al
2022; 143 (2): 283-286
- **EWSR1-BEND2 fusion defines an epigenetically distinct subtype of astroblastoma.** *Acta neuropathologica*
Lucas, C. G., Gupta, R., Wu, J., Shah, K., Ravindranathan, A., Barreto, J., Gener, M., Ginn, K. F., Prall, O. W., Xu, H., Kee, D., Ko, H. S., Yaqoob, et al
2022; 143 (1): 109-113
- **Genetic and epigenetic characterization of posterior pituitary tumors.** *Acta neuropathologica*
Schmid, S., Solomon, D. A., Perez, E., Thieme, A., Kleinschmidt-DeMasters, B. K., Giannini, C., Reinhardt, A., Asa, S. L., Mete, O., Stichel, D., Siewert, C., Dittmayer, C., Hasselblatt, et al
2021; 142 (6): 1025-1043
- **A multicenter analysis of the prognostic value of histone H3 K27M mutation in adult high-grade spinal glioma.** *Journal of neurosurgery. Spine*
Akinduro, O. O., Garcia, D. P., Higgins, D. M., Vivas-Buitrago, T., Jentoft, M., Solomon, D. A., Daniels, D. J., Pennington, Z., Sherman, W. J., Delgado, M., Bydon, M., Kalani, M. A., Zanazzi, et al
2021; 35 (6): 834-843
- **Deconvoluting Mechanisms of Acquired Resistance to RAF Inhibitors in BRAFV600E-Mutant Human Glioma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Schreck, K. C., Morin, A., Zhao, G., Allen, A. N., Flannery, P., Glantz, M., Green, A. L., Jones, C., Jones, K. L., Kilburn, L. B., Nazemi, K. J., Samuel, D., Sanford, et al
2021; 27 (22): 6197-6208
- **Diffuse hemispheric glioma, H3 G34-mutant: Genomic landscape of a new tumor entity and prospects for targeted therapy.** *Neuro-oncology*
Lucas, C. G., Mueller, S., Reddy, A., Taylor, J. W., Oberheim Bush, N. A., Clarke, J. L., Chang, S. M., Gupta, N., Berger, M. S., Perry, A., Phillips, J. J., Solomon, D. A.
2021; 23 (11): 1974-1976
- **Temozolomide-induced hypermutation is associated with distant recurrence and reduced survival after high-grade transformation of low-grade IDH-mutant gliomas.** *Neuro-oncology*
Yu, Y., Villanueva-Meyer, J., Grimmer, M. R., Hiltz, S., Solomon, D. A., Choi, S., Wahl, M., Mazor, T., Hong, C., Shai, A., Phillips, J. J., Wainer, B. H., McDermott, et al
2021; 23 (11): 1872-1884
- **Systemic and Craniospinal Rosai Dorfman Disease with Intraparenchymal, Intramedullary and Leptomeningeal Disease.** *International journal of hematology-oncology and stem cell research*
Li, Y., Sloan, E., Bollen, A., Solomon, D., Theodosopoulos, P., Cha, S.
2021; 15 (4): 260-264
- **Adjuvant Maintenance Larotrectinib Therapy in 2 Children With NTRK Fusion-positive High-grade Cancers.** *Journal of pediatric hematology/oncology*
Carter-Febres, M., Schneller, N., Fair, D., Solomon, D., Perry, A., Roy, A., Linscott, L., Alashari, M., Kestle, J. R., Bruggers, C. S.
2021; 43 (7): e987-e990
- **Molecular characterisation of sporadic endolymphatic sac tumours and comparison to von Hippel-Lindau disease-related tumours.** *Neuropathology and applied neurobiology*
Schweizer, L., Thierfelder, F., Thomas, C., Soschinski, P., Kim, H. Y., Jödicke, R., Woltering, N., Förster, A., Teichmann, D., Siewert, C., Klein, K., Schmid, S., Nunninger, et al
2021; 47 (6): 756-767
- **Tumor DNA requirements for accurate epigenetic-based classification of CNS neoplasia.** *Neuro-oncology*
Wu, J., Gupta, R., Barreto, J., Doo, P., Joseph, N. M., Lee, J. C., Perry, A., Chang, S. M., Berger, M. S., Solomon, D. A.
2021; 23 (10): 1798-1800
- **Sarcomatous Meningioma: Diagnostic Pitfalls and the Utility of Molecular Testing.** *Journal of neuropathology and experimental neurology*
Lucas, C. G., Devine, P., Solomon, D. A., Giannini, C., Reifenberger, G., Dahiya, S., Caccamo, D., Perry, A.

2021; 80 (8): 764-768

- **Low-grade glioneuronal tumors with FGFR2 fusion resolve into a single epigenetic group corresponding to 'Polymorphous low-grade neuroepithelial tumor of the young'. *Acta neuropathologica***
Gupta, R., Lucas, C. G., Wu, J., Barreto, J., Shah, K., Simon, I. B., Casavilca-Zambrano, S., Brathwaite, C., Zhou, H., Caccamo, D., Gilani, A., Kleinschmidt-DeMasters, B. K., Lee, et al
2021; 142 (3): 595-599
- **Intracranial mesenchymal tumor with FET-CREB fusion-A unifying diagnosis for the spectrum of intracranial myxoid mesenchymal tumors and angiomatoid fibrous histiocytoma-like neoplasms. *Brain pathology (Zurich, Switzerland)***
Sloan, E. A., Chiang, J., Villanueva-Meyer, J. E., Alexandrescu, S., Eschbacher, J. M., Wang, W., Mafra, M., Ud Din, N., Carr-Boyd, E., Watson, M., Punsoni, M., Oviedo, A., Gilani, et al
2021; 31 (4): e12918
- **Letter: Patterns of Intermediate- and High-Risk Meningioma Recurrence After Treatment With Postoperative External Beam Radiotherapy. *Neurosurgery***
Susko, M. S., Chen, W. C., Vasudevan, H. N., Magill, S. T., Lucas, C. G., Oberheim Bush, N. A., Solomon, D. A., Theodosopoulos, P. V., McDermott, M. W., Villanueva-Meyer, J. E., Boreta, L., Nakamura, J. L., Sneed, et al
2021; 89 (1): E99-E101
- **A subset of pediatric-type thalamic gliomas share a distinct DNA methylation profile, H3K27me3 loss and frequent alteration of EGFR. *Neuro-oncology***
Sievers, P., Sill, M., Schrimpf, D., Stichel, D., Reuss, D. E., Sturm, D., Hench, J., Frank, S., Krskova, L., Vicha, A., Zapotocky, M., Bison, B., Castel, et al
2021; 23 (1): 34-43
- **A Prognostic Gene-Expression Signature and Risk Score for Meningioma Recurrence After Resection. *Neurosurgery***
Chen, W. C., Vasudevan, H. N., Choudhury, A., Pekmezci, M., Lucas, C. G., Phillips, J., Magill, S. T., Susko, M. S., Braunstein, S. E., Oberheim Bush, N. A., Boreta, L., Nakamura, J. L., Villanueva-Meyer, et al
2020; 88 (1): 202-210
- **The immunohistochemical, DNA methylation, and chromosomal copy number profile of cauda equina paraganglioma is distinct from extra-spinal paraganglioma. *Acta neuropathologica***
Ramani, B., Gupta, R., Wu, J., Barreto, J., Bollen, A. W., Tihan, T., Mummaneni, P. V., Ames, C., Clark, A., Oberheim Bush, N. A., Butowski, N., Phillips, D., King, et al
2020; 140 (6): 907-917
- **Clinical, radiologic, and genetic characteristics of histone H3 K27M-mutant diffuse midline gliomas in adults. *Neuro-oncology advances***
Schulte, J. D., Buerki, R. A., Lapointe, S., Molinaro, A. M., Zhang, Y., Villanueva-Meyer, J. E., Perry, A., Phillips, J. J., Tihan, T., Bollen, A. W., Pekmezci, M., Butowski, N., Oberheim Bush, et al
2020; 2 (1): vdaa142
- **A novel PARD3B-NUTM1 fusion in an aggressive primary CNS embryonal tumor in a young adult. *Acta neuropathologica communications***
Ko, K., Kitani, T., Harris, B. T., Anaizi, A. N., Solomon, D., Perry, A., Toretzky, J., Ozdemirli, M.
2020; 8 (1): 112
- **cIMPACT-NOW update 6: new entity and diagnostic principle recommendations of the cIMPACT-Utrecht meeting on future CNS tumor classification and grading. *Brain pathology (Zurich, Switzerland)***
Louis, D. N., Wesseling, P., Aldape, K., Brat, D. J., Capper, D., Cree, I. A., Eberhart, C., Figarella-Branger, D., Fouladi, M., Fuller, G. N., Giannini, C., Haberler, C., Hawkins, et al
2020; 30 (4): 844-856
- **Infant High-Grade Gliomas Comprise Multiple Subgroups Characterized by Novel Targetable Gene Fusions and Favorable Outcomes. *Cancer discovery***
Clarke, M., Mackay, A., Ismer, B., Pickles, J. C., Tatevossian, R. G., Newman, S., Bale, T. A., Stoler, I., Izquierdo, E., Temelso, S., Carvalho, D. M., Molinari, V., Burford, et al
2020; 10 (7): 942-963
- **Pathology of meningiomas. *Handbook of clinical neurology***
Solomon, D. A., Pekmezci, M.
2020; 169: 87-99

- **DNA methylation profiling demonstrates superior diagnostic classification to RNA-sequencing in a case of metastatic meningioma.** *Acta neuropathologica communications*
Vasudevan, H. N., Castro, M. R., Lee, J. C., Villanueva-Meyer, J. E., Bush, N. A., McDermott, M. W., Solomon, D. A., Perry, A., Magill, S. T., Raleigh, D. R.
2020; 8 (1): 82
- **Next-Generation Sequencing of Retinoblastoma Identifies Pathogenic Alterations beyond RB1 Inactivation That Correlate with Aggressive Histopathologic Features.** *Ophthalmology*
Afshar, A. R., Pekmezci, M., Bloomer, M. M., Cadenas, N. J., Stevers, M., Banerjee, A., Roy, R., Olshen, A. B., Van Ziffle, J., Onodera, C., Devine, W. P., Grenert, J. P., Bastian, et al
2020; 127 (6): 804-813
- **Multiregion exome sequencing of ovarian immature teratomas reveals 2N near-diploid genomes, paucity of somatic mutations, and extensive allelic imbalances shared across mature, immature, and disseminated components.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Heskett, M. B., Sanborn, J. Z., Boniface, C., Goode, B., Chapman, J., Garg, K., Rabban, J. T., Zaloudek, C., Benz, S. C., Spellman, P. T., Solomon, D. A., Cho, R. J.
2020; 33 (6): 1193-1206
- **Eye-sparing Treatment of Localized Orbital Medulloepithelioma With Neoadjuvant Chemoradiation.** *Ophthalmic plastic and reconstructive surgery*
Gallo, R. A., Shoag, J., Johnson, T. E., Solomon, D. A., Perry, A., Podda, A., Lee, J. Y., Rong, A. J.
2020; 37 (1): e13-e16
- **Myxoid glioneuronal tumor, PDGFRA p.K385-mutant: clinical, radiologic, and histopathologic features.** *Brain pathology (Zurich, Switzerland)*
Lucas, C. G., Villanueva-Meyer, J. E., Whipple, N., Oberheim Bush, N. A., Cooney, T., Chang, S., McDermott, M., Berger, M., Cham, E., Sun, P. P., Putnam, A., Zhou, H., Bollo, et al
2020; 30 (3): 479-494
- **An update on the central nervous system manifestations of familial tumor predisposition syndromes.** *Acta neuropathologica*
Solomon, D. A.
2020; 139 (4): 609-612
- **Catastrophic stroke burden in a patient with uncontrolled psoriasis and psoriatic arthritis: a case report.** *BMC neurology*
Fan, J. M., Solomon, D. A., López, G. Y., Hofmann, J. W., Colorado, R. A., Kim, A. S., Meisel, K., Halabi, C.
2020; 20 (1): 106
- **Loss of H3K27 trimethylation by immunohistochemistry is frequent in oligodendroglioma, IDH-mutant and 1p/19q-codeleted, but is neither a sensitive nor a specific marker.** *Acta neuropathologica*
Pekmezci, M., Phillips, J. J., Dirilenoglu, F., Atasever-Rezanko, T., Tihan, T., Solomon, D., Bollen, A., Perry, A.
2020; 139 (3): 597-600
- **Clinicopathologic and molecular features of intracranial desmoplastic small round cell tumors.** *Brain pathology (Zurich, Switzerland)*
Lee, J. C., Villanueva-Meyer, J. E., Ferris, S. P., Cham, E. M., Zucker, J., Cooney, T., Gilani, A., Kleinschmidt-DeMasters, B. K., Trembath, D., Mafra, M., Chiang, J., Ellison, D. W., Cho, et al
2020; 30 (2): 213-225
- **A review of recently described genetic alterations in central nervous system tumors.** *Human pathology*
Lucas, C. G., Solomon, D. A., Perry, A.
2020; 96: 56-66
- **High-grade neuroepithelial tumor with BCOR exon 15 internal tandem duplication-a comprehensive clinical, radiographic, pathologic, and genomic analysis.** *Brain pathology (Zurich, Switzerland)*
Ferris, S. P., Velazquez Vega, J., Aboian, M., Lee, J. C., Van Ziffle, J., Onodera, C., Grenert, J. P., Saunders, T., Chen, Y. Y., Banerjee, A., Kline, C. N., Gupta, N., Raffel, et al
2020; 30 (1): 46-62
- **Neuroglial stem cell-derived inflammatory pseudotumor (n-SCIPT): clinicopathologic characterization of a novel lesion of the lumbosacral spinal cord and nerve roots following intrathecal allogeneic stem cell intervention.** *Acta neuropathologica*
Sloan, E. A., Sampognaro, P. J., Junn, J. C., Chin, C., Jacques, L., Ramachandran, P. S., DeRisi, J. L., Wilson, M. R., Kriegstein, A. R., Bollen, A. W., Solomon, D. A., Margeta, M., Engstrom, et al

2019; 138 (6): 1103-1106

- **Recurrent non-canonical histone H3 mutations in spinal cord diffuse gliomas.** *Acta neuropathologica*
Sloan, E. A., Cooney, T., Oberheim Bush, N. A., Buerki, R., Taylor, J., Clarke, J. L., Torkildson, J., Kline, C., Reddy, A., Mueller, S., Banerjee, A., Butowski, N., Chang, et al
2019; 138 (5): 877-881
- **A case of recurrent epilepsy-associated rosette-forming glioneuronal tumor with anaplastic transformation in the absence of therapy.** *Neuropathology : official journal of the Japanese Society of Neuropathology*
Halfpenny, A., Ferris, S. P., Grafe, M., Woltjer, R., Selden, N., Nazemi, K., Perry, A., Solomon, D. A., Gultekin, S. H., Moore, S., Olson, S., Lawce, H., Lucas, et al
2019; 39 (5): 389-393
- **Loss of ZNF750 in ocular and cutaneous sebaceous carcinoma.** *Journal of cutaneous pathology*
North, J. P., Solomon, D. A., Golovato, J., Bloomer, M., Benz, S. C., Cho, R. J.
2019; 46 (10): 736-741
- **ALK-positive histiocytosis with KIF5B-ALK fusion in the central nervous system.** *Acta neuropathologica*
Lucas, C. G., Gilani, A., Solomon, D. A., Liang, X., Maher, O. M., Chamyan, G., Kleinschmidt-Demasters, B. K., Perry, A.
2019; 138 (2): 335-337
- **An unusual recurrent high-grade glioneuronal tumor with MAP2K1 mutation and CDKN2A/B homozygous deletion** *ACTA NEUROPATHOLOGICA COMMUNICATIONS*
Cheaney, B., Bowden, S., Krause, K., Sloan, E. A., Perry, A., Solomon, D. A., Han, S., Wood, M. D.
2019; 7: 110
- **Fertility treatment is associated with multiple meningiomas and younger age at diagnosis.** *Journal of neuro-oncology*
Shahin, M. N., Magill, S. T., Dalle Ore, C. L., Viner, J. A., Peters, P. N., Solomon, D. A., McDermott, M. W.
2019; 143 (1): 137-144
- **Recurrent EP300-BCOR Fusions in Pediatric Gliomas With Distinct Clinicopathologic Features.** *Journal of neuropathology and experimental neurology*
Torre, M., Meredith, D. M., Dubuc, A., Solomon, D. A., Perry, A., Vasudevaraja, V., Serrano, J., Snuderl, M., Ligon, K. L., Alexandrescu, S.
2019; 78 (4): 305-314
- **A pilot precision medicine trial for children with diffuse intrinsic pontine glioma-PNOC003: A report from the Pacific Pediatric Neuro-Oncology Consortium.** *International journal of cancer*
Mueller, S., Jain, P., Liang, W. S., Kilburn, L., Kline, C., Gupta, N., Panditharatna, E., Magge, S. N., Zhang, B., Zhu, Y., Crawford, J. R., Banerjee, A., Nazemi, et al
2019
- **Primary intracranial sarcomas with DICER1 mutation often contain prominent eosinophilic cytoplasmic globules and can occur in the setting of neurofibromatosis type 1.** *Acta neuropathologica*
Lee, J. C., Villanueva-Meyer, J. E., Ferris, S. P., Sloan, E. A., Hofmann, J. W., Hattab, E. M., Williams, B. J., Guo, H., Torkildson, J., Florez, A., Van Ziffle, J., Onodera, C., Grenert, et al
2019; 137 (3): 521-525
- **CRTC1-MAML2 fusion in mucoepidermoid carcinoma of the breast** *HISTOPATHOLOGY*
Bean, G. R., Krings, G., Otis, C. N., Solomon, D. A., Garcia, J. J., van Zante, A., Camelo-Piragua, S., van Ziffle, J., Chen, Y.
2019; 74 (3): 463-73
- **Clinicopathologic features of anaplastic myxopapillary ependymomas.** *Brain pathology (Zurich, Switzerland)*
Lee, J. C., Sharifai, N., Dahiya, S., Kleinschmidt-DeMasters, B. K., Rosenblum, M. K., Reis, G. F., Samuel, D., Siogco, A. M., Santi, M., Storm, P. B., Ferris, S. P., Bollen, A. W., Pekmezci, et al
2019; 29 (1): 75-84
- **The genetic landscape of anaplastic pleomorphic xanthoastrocytoma.** *Brain pathology (Zurich, Switzerland)*
Phillips, J. J., Gong, H., Chen, K., Joseph, N. M., van Ziffle, J., Bastian, B. C., Grenert, J. P., Kline, C. N., Mueller, S., Banerjee, A., Nicolaides, T., Gupta, N., Berger, et al
2019; 29 (1): 85-96

- **Early detection of recurrent medulloblastoma: the critical role of diffusion-weighted imaging.** *Neuro-oncology practice*
Aboian, M. S., Kline, C. N., Li, Y., Solomon, D. A., Felton, E., Banerjee, A., Braunstein, S. E., Mueller, S., Dillon, W. P., Cha, S.
2018; 5 (4): 234-240
- **Oligodendrogliomas, IDH-mutant and 1p/19q-codeleted, arising during teenage years often lack TERT promoter mutation that is typical of their adult counterparts.** *Acta neuropathologica communications*
Lee, J., Putnam, A. R., Chesier, S. H., Banerjee, A., Raffel, C., Van Ziffle, J., Onodera, C., Grenert, J. P., Bastian, B. C., Perry, A., Solomon, D. A.
2018; 6 (1): 95
- **STAG2 Is a Biomarker for Prediction of Recurrence and Progression in Papillary Non-Muscle-Invasive Bladder Cancer.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Lelo, A., Prip, F., Harris, B. T., Solomon, D., Berry, D. L., Chaldeckas, K., Kumar, A., Simko, J., Jensen, J. B., Bhattacharyya, P., Mannion, C., Kim, J. S., Philips, et al
2018; 24 (17): 4145-4153
- **The genetic landscape of ganglioglioma.** *Acta neuropathologica communications*
Pekmezci, M., Villanueva-Meyer, J. E., Goode, B., Van Ziffle, J., Onodera, C., Grenert, J. P., Bastian, B. C., Chamyan, G., Maher, O. M., Khatib, Z., Kleinschmidt-DeMasters, B. K., Samuel, D., Mueller, et al
2018; 6 (1): 47
- **Spectrum and prevalence of genetic predisposition in medulloblastoma: a retrospective genetic study and prospective validation in a clinical trial cohort** *LANCET ONCOLOGY*
Waszak, S. M., Northcott, P. A., Buchhalter, I., Robinson, G. W., Sutter, C., Groebner, S., Grund, K. B., Brugieres, L., Jones, D. T. W., Pajtler, K. W., Morrissy, A., Kool, M., Sturm, et al
2018; 19 (6): 785-98
- **Cell of origin and mutation pattern define three clinically distinct classes of sebaceous carcinoma.** *Nature communications*
North, J. P., Golovato, J., Vaske, C. J., Sanborn, J. Z., Nguyen, A., Wu, W., Goode, B., Stevers, M., McMullen, K., Perez White, B. E., Collisson, E. A., Bloomer, M., Solomon, et al
2018; 9 (1): 1894
- **STAG2 deficiency induces interferon responses via cGAS-STING pathway and restricts virus infection.** *Nature communications*
Ding, S., Diep, J., Feng, N., Ren, L., Li, B., Ooi, Y. S., Wang, X., Brulois, K. F., Yasukawa, L. L., Li, X., Kuo, C. J., Solomon, D. A., Carette, et al
2018; 9 (1): 1485
- **Genomic analysis of the origins and evolution of multicentric diffuse lower-grade gliomas.** *Neuro-oncology*
Hayes, J., Yu, Y., Jalbert, L. E., Mazor, T., Jones, L. E., Wood, M. D., Walsh, K. M., Bengtsson, H., Hong, C., Oberndorfer, S., Roetzer, T., Smirnov, I. V., Clarke, et al
2018; 20 (5): 632-641
- **Deep sequencing of WNT-activated medulloblastomas reveals secondary SHH pathway activation.** *Acta neuropathologica*
Iorgulescu, J. B., Van Ziffle, J., Stevers, M., Grenert, J. P., Bastian, B. C., Chavez, L., Stichel, D., Buchhalter, I., Samuel, D., Nicolaidis, T., Banerjee, A., Mueller, S., Gupta, et al
2018; 135 (4): 635-638
- **Multimodal molecular analysis of astroblastoma enables reclassification of most cases into more specific molecular entities.** *Brain pathology (Zurich, Switzerland)*
Wood, M. D., Tihan, T., Perry, A., Chacko, G., Turner, C., Pu, C., Payne, C., Yu, A., Bannykh, S. I., Solomon, D. A.
2018; 28 (2): 192-202
- **Molecular testing for the clinical diagnosis of fibrolamellar carcinoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Graham, R. P., Yeh, M. M., Lam-Himlin, D., Roberts, L. R., Terracciano, L., Cruise, M. W., Greipp, P. T., Zreik, R. T., Jain, D., Zaid, N., Salaria, S. N., Jin, L., Wang, et al
2018; 31 (1): 141-149
- **Personalized therapy: CNS HGNB-BCOR responsiveness to arsenic trioxide combined with radiotherapy.** *Oncotarget*
Paret, C., Russo, A., Otto, H., Mayer, A., Zahnreich, S., Wagner, W., Samuel, D., Scharnhorst, D., Solomon, D. A., Dhall, G., Wong, K., Bender, H., Alt, et al
2017; 8 (69): 114210-114225

- **Diffuse midline gliomas with subclonal H3F3A K27M mutation and mosaic H3.3 K27M mutant protein expression.** *Acta neuropathologica*
Lopez, G. Y., Oberheim Bush, N. A., Phillips, J. J., Bouffard, J. P., Moshel, Y. A., Jaecle, K., Kleinschmidt-DeMasters, B. K., Rosenblum, M. K., Perry, A., Solomon, D. A.
2017; 134 (6): 961-963
- **Complete durable response of a pediatric anaplastic oligodendroglioma to temozolomide alone: Case report and review of literature.** *Pediatric blood & cancer*
Sorge, C., Li, R., Singh, S., Reddy, A. T., Solomon, D. A., Perry, A., Friedman, G. K.
2017; 64 (12)
- **Angiocentric glioma with MYB-QKI fusion located in the brainstem, rather than cerebral cortex.** *Acta neuropathologica*
Chan, E., Bollen, A. W., Sirohi, D., Van Ziffle, J., Grenert, J. P., Kline, C. N., Tihan, T., Perry, A., Gupta, N., Solomon, D. A.
2017; 134 (4): 671-673
- **Familial melanoma-astrocytoma syndrome: synchronous diffuse astrocytoma and pleomorphic xanthoastrocytoma in a patient with germline CDKN2A/B deletion and a significant family history.** *Clinical neuropathology*
Chan, A. K., Han, S. J., Choy, W., Belefard, D., Aghi, M. K., Berger, M. S., Shieh, J. T., Bollen, A. W., Perry, A., Phillips, J. J., Butowski, N., Solomon, D. A.
2017; 36 (5): 213-221
- **Case-based review: pediatric medulloblastoma.** *Neuro-oncology practice*
Kline, C. N., Packer, R. J., Hwang, E. I., Raleigh, D. R., Braunstein, S., Raffel, C., Bandopadhyay, P., Solomon, D. A., Aboian, M., Cha, S., Mueller, S.
2017; 4 (3): 138-150
- **Characterization of gliomas: from morphology to molecules.** *Virchows Archiv : an international journal of pathology*
Ferris, S. P., Hofmann, J. W., Solomon, D. A., Perry, A.
2017; 471 (2): 257-269
- **Uveal Ganglioneuroma due to Germline PTEN Mutation (Cowden Syndrome) Presenting as Unilateral Infantile Glaucoma.** *Ocular oncology and pathology*
DeParis, S. W., Bloomer, M., Han, Y., Vagefi, M. R., Shieh, J. T., Solomon, D. A., Grenert, J., de Alba Campomanes, A. G.
2017; 3 (2): 122-128
- **Intraneural glomus tumor of "uncertain malignant potential" and with BRAF mutation in the median nerve - an unusual case.** *Clinical neuropathology*
Dahlin, L. B., Scherman, P., Besjakov, J., Lindberg, E., Solomon, D. A., Horvai, A. E., Perry, A.
2017; 36 (4): 164-170
- **Genomic profiling of breast secretory carcinomas reveals distinct genetics from other breast cancers and similarity to mammary analog secretory carcinomas.** *Modern pathology*
Krings, G., Joseph, N. M., Bean, G. R., Solomon, D., Onodera, C., Talevich, E., Yeh, I., Grenert, J. P., Hosfield, E., Crawford, E. D., Jordan, R. C., van Zante, A., Zaloudek, et al
2017
- **Diffuse non-midline glioma with H3F3A K27M mutation: a prognostic and treatment dilemma.** *Acta neuropathologica communications*
López, G., Oberheim Bush, N. A., Berger, M. S., Perry, A., Solomon, D. A.
2017; 5 (1): 38
- **Chordoid glioma of the third ventricle: report of a rapidly progressive case.** *Journal of neuro-oncology*
Erwood, A. A., Velazquez-Vega, J. E., Neill, S., Solomon, D. A., Butowski, N., Nowlan, A., Dunbar, E., Brat, D. J.
2017; 132 (3): 487-495
- **Genetic confirmation that ependymoma can arise as part of multiple endocrine neoplasia type 1 (MEN1) syndrome.** *Acta neuropathologica*
Cuevas-Ocampo, A. K., Bollen, A. W., Goode, B., Pajtler, K. W., Chavez, L., Sharma, T., Dai, S. C., McDermott, M., Perry, A., Korshunov, A., Solomon, D. A.
2017; 133 (4): 661-663
- **The role of histone modifications and telomere alterations in the pathogenesis of diffuse gliomas in adults and children.** *Journal of neuro-oncology*
Lee, J., Solomon, D. A., Tihan, T.

2017; 132 (1): 1-11

- **Genomic profiling of malignant peritoneal mesothelioma reveals recurrent alterations in epigenetic regulatory genes BAP1, SETD2, and DDX3X.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Joseph, N. M., Chen, Y. Y., Nasr, A., Yeh, I., Talevich, E., Onodera, C., Bastian, B. C., Rabban, J. T., Garg, K., Zaloudek, C., Solomon, D. A.
2017; 30 (2): 246-254
- **Histopathologic review of pineal parenchymal tumors identifies novel morphologic subtypes and prognostic factors for outcome.** *Neuro-oncology*
Raleigh, D. R., Solomon, D. A., Lloyd, S. A., Lazar, A., Garcia, M. A., Sneed, P. K., Clarke, J. L., McDermott, M. W., Berger, M. S., Tihan, T., Haas-Kogan, D. A.
2017; 19 (1): 78-88
- **Pancreatic involvement by mesenchymal chondrosarcoma harboring the HEY1-NCOA2 gene fusion.** *Human pathology*
Cohen, J. N., Solomon, D. A., Horvai, A. E., Kakar, S.
2016; 58: 35-40
- **Correlation of exon 3 β -catenin mutations with glutamine synthetase staining patterns in hepatocellular adenoma and hepatocellular carcinoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Hale, G., Liu, X., Hu, J., Xu, Z., Che, L., Solomon, D., Tsokos, C., Shafizadeh, N., Chen, X., Gill, R., Kakar, S.
2016; 29 (11): 1370-1380
- **Activating NRF1-BRAF and ATG7-RAF1 fusions in anaplastic pleomorphic xanthoastrocytoma without BRAF p.V600E mutation.** *Acta neuropathologica*
Phillips, J. J., Gong, H., Chen, K., Joseph, N. M., van Ziffle, J., Jin, L. W., Bastian, B. C., Bollen, A. W., Perry, A., Nicolaidis, T., Solomon, D. A., Shieh, J. T.
2016; 132 (5): 757-760
- **Diffuse Midline Gliomas with Histone H3-K27M Mutation: A Series of 47 Cases Assessing the Spectrum of Morphologic Variation and Associated Genetic Alterations.** *Brain pathology (Zurich, Switzerland)*
Solomon, D. A., Wood, M. D., Tihan, T., Bollen, A. W., Gupta, N., Phillips, J. J., Perry, A.
2016; 26 (5): 569-80
- **IDH1 mutation can be present in diffuse astrocytomas and giant cell glioblastomas of young children under 10 years of age.** *Acta neuropathologica*
Ferris, S. P., Goode, B., Joseph, N. M., Kline, C. N., Samuel, D., Gupta, N., Bollen, A., Perry, A., Mueller, S., Solomon, D. A.
2016; 132 (1): 153-5
- **Exploiting molecular biology for diagnosis and targeted management of pediatric low-grade gliomas.** *Future oncology (London, England)*
Garcia, M. A., Solomon, D. A., Haas-Kogan, D. A.
2016; 12 (12): 1493-506
- **Inactivating MUTYH germline mutations in pediatric patients with high-grade midline gliomas.** *Neuro-oncology*
Kline, C. N., Joseph, N. M., Grenert, J. P., van Ziffle, J., Yeh, I., Bastian, B. C., Mueller, S., Solomon, D. A.
2016; 18 (5): 752-3
- **Morphology and Immunohistochemistry for 2SC and FH Aid in Detection of Fumarate Hydratase Gene Aberrations in Uterine Leiomyomas From Young Patients.** *The American journal of surgical pathology*
Joseph, N. M., Solomon, D. A., Frizzell, N., Rabban, J. T., Zaloudek, C., Garg, K.
2015; 39 (11): 1529-39
- **Pharmacologic inhibition of histone demethylation as a therapy for pediatric brainstem glioma** *NATURE MEDICINE*
Hashizume, R., Andor, N., Ihara, Y., Lerner, R., Gan, H., Chen, X., Fang, D., Huang, X., Tom, M. W., Ngo, V., Solomon, D., Mueller, S., Paris, et al
2014; 20 (12): 1394-1396
- **Clinicopathologic features of a second patient with Ewing-like sarcoma harboring CIC-FOXO4 gene fusion.** *The American journal of surgical pathology*
Solomon, D. A., Brohl, A. S., Khan, J., Miettinen, M.
2014; 38 (12): 1724-5
- **Mutational and functional analysis of the tumor-suppressor PTPRD in human melanoma.** *Human mutation*
Walia, V., Prickett, T. D., Kim, J. S., Gartner, J. J., Lin, J. C., Zhou, M., Rosenberg, S. A., Elble, R. C., Solomon, D. A., Waldman, T., Samuels, Y.

2014; 35 (11): 1301-10

- **Aneurysm of the posterior meningeal artery embedded within a dorsal exophytic medullary hemangioblastoma: surgical management and review of literature.** *Journal of cerebrovascular and endovascular neurosurgery*
Raygor, K. P., Rowland, N. C., Cooke, D. L., Solomon, D. A., Huang, M. C.
2014; 16 (3): 293-8
- **Cohesin gene mutations in tumorigenesis: from discovery to clinical significance.** *BMB reports*
Solomon, D. A., Kim, J. S., Waldman, T.
2014; 47 (6): 299-310
- **Glioblastoma cells containing mutations in the cohesin component STAG2 are sensitive to PARP inhibition.** *Molecular cancer therapeutics*
Bailey, M. L., O'Neil, N. J., van Pel, D. M., Solomon, D. A., Waldman, T., Hieter, P.
2014; 13 (3): 724-32
- **Hemosiderotic fibrolipomatous tumor, not an entirely benign entity.** *The American journal of surgical pathology*
Solomon, D. A., Antonescu, C. R., Link, T. M., O'Donnell, R. J., Folpe, A. L., Horvai, A. E.
2013; 37 (10): 1627-30
- **Targeted therapy for BRAFV600E malignant astrocytoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Nicolaidis, T. P., Li, H., Solomon, D. A., Hariono, S., Hashizume, R., Barkovich, K., Baker, S. J., Paugh, B. S., Jones, C., Forshew, T., Hindley, G. F., Hodgson, J. G., Kim, et al
2011; 17 (24): 7595-604
- **Mechanistic analysis of a DNA damage-induced, PTEN-dependent size checkpoint in human cells.** *Molecular and cellular biology*
Kim, J. S., Xu, X., Li, H., Solomon, D., Lane, W. S., Jin, T., Waldman, T.
2011; 31 (13): 2756-71
- **Integrated genomic analyses identify ERFF1 and TACC3 as glioblastoma-targeted genes.** *Oncotarget*
Duncan, C. G., Killela, P. J., Payne, C. A., Lampson, B., Chen, W. C., Liu, J., Solomon, D., Waldman, T., Towers, A. J., Gregory, S. G., McDonald, K. L., McLendon, R. E., Bigner, et al
2010; 1 (4): 265-77
- **IDH1(R132) mutation identified in one human melanoma metastasis, but not correlated with metastases to the brain.** *Biochemical and biophysical research communications*
Lopez, G. Y., Reitman, Z. J., Solomon, D., Waldman, T., Bigner, D. D., McLendon, R. E., Rosenberg, S. A., Samuels, Y., Yan, H.
2010; 398 (3): 585-7
- **Lack of inherited mutations of PTPRD in familial melanoma and melanoma-astrocytoma syndrome.** *Pigment cell & melanoma research*
Solomon, D. A., Kim, J. S., Yang, X. R., Tucker, M. A., Goldstein, A. M., Samuels, Y., Waldman, T.
2009; 22 (4): 489-91
- **Retinoblastoma/p107/p130 pocket proteins: protein dynamics and interactions with target gene promoters.** *The Journal of biological chemistry*
Stengel, K. R., Thangavel, C., Solomon, D. A., Angus, S. P., Zheng, Y., Knudsen, E. S.
2009; 284 (29): 19265-71
- **SWI/SNF deficiency results in aberrant chromatin organization, mitotic failure, and diminished proliferative capacity.** *Molecular biology of the cell*
Bourgo, R. J., Siddiqui, H., Fox, S., Solomon, D., Sansam, C. G., Yaniv, M., Muchardt, C., Metzger, D., Chambon, P., Roberts, C. W., Knudsen, E. S.
2009; 20 (14): 3192-9
- **Mutational inactivation of PTPRD in glioblastoma multiforme and malignant melanoma.** *Cancer research*
Solomon, D. A., Kim, J. S., Cronin, J. C., Sibenaller, Z., Ryken, T., Rosenberg, S. A., Ressom, H., Jean, W., Bigner, D., Yan, H., Samuels, Y., Waldman, T.
2008; 68 (24): 10300-6
- **Conspirators in a capital crime: co-deletion of p18INK4c and p16INK4a/p14ARF/p15INK4b in glioblastoma multiforme.** *Cancer research*
Solomon, D. A., Kim, J. S., Jean, W., Waldman, T.
2008; 68 (21): 8657-60

- **WAVE1 is required for oligodendrocyte morphogenesis and normal CNS myelination.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Kim, H. J., DiBernardo, A. B., Sloane, J. A., Rasband, M. N., Solomon, D., Kosaras, B., Kwak, S. P., Vartanian, T. K.
2006; 26 (21): 5849-59
- **Dynamic targeting of the replication machinery to sites of DNA damage.** *The Journal of cell biology*
Solomon, D. A., Cardoso, M. C., Knudsen, E. S.
2004; 166 (4): 455-63
- **Hierarchical requirement of SWI/SNF in retinoblastoma tumor suppressor-mediated repression of Plk1.** *The Journal of biological chemistry*
Gunawardena, R. W., Siddiqui, H., Solomon, D. A., Mayhew, C. N., Held, J., Angus, S. P., Knudsen, E. S.
2004; 279 (28): 29278-85
- **Analysis of RB action in DNA damage checkpoint response.** *Methods in molecular biology (Clifton, N.J.)*
Mayhew, C. N., Bosco, E. E., Solomon, D. A., Knudsen, E. S., Angus, S. P.
2004; 281: 3-16
- **RB reversibly inhibits DNA replication via two temporally distinct mechanisms.** *Molecular and cellular biology*
Angus, S. P., Mayhew, C. N., Solomon, D. A., Braden, W. A., Markey, M. P., Okuno, Y., Cardoso, M. C., Gilbert, D. M., Knudsen, E. S.
2004; 24 (12): 5404-20
- **Retinoblastoma tumor suppressor: analyses of dynamic behavior in living cells reveal multiple modes of regulation.** *Molecular and cellular biology*
Angus, S. P., Solomon, D. A., Kuschel, L., Hennigan, R. F., Knudsen, E. S.
2003; 23 (22): 8172-88
- **Histone deacetylation of RB-responsive promoters: requisite for specific gene repression but dispensable for cell cycle inhibition.** *Molecular and cellular biology*
Siddiqui, H., Solomon, D. A., Gunawardena, R. W., Wang, Y., Knudsen, E. S.
2003; 23 (21): 7719-31
- **Growth factor control of CNS myelination.** *Developmental neuroscience*
Park, S. K., Solomon, D., Vartanian, T.
2001; 23 (4-5): 327-37