Stanford

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

ADMINISTRATIVE APPOINTMENTS

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

HONORS AND AWARDS

- 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

- Molecular Pathology Track Chair, Society for Neuro-Oncology (SNO) (2024 - present)
- 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-baccaulareate research, University of Cincinnati College of Medicine , Cancer Biology (2004)
- B.S., College of William and Mary , Molecular and Cellular Biology; Chemistry (2002)

LINKS

- 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

Publications

PUBLICATIONS

- **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., Warrier, 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

- **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

- **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

- **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*
  Stevers, 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-kB pathway activation.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
  Goode, B., Joseph, N. M., Stevers, 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., Stevers, 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

- **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

- **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., Bettegowda, 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., Hilz, 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., Hilz, 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

- **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

- **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

- **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

- **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

- **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

- **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

- **Iris and Ciliary Body Melanocytomas Are Defined by Solitary GNAQ Mutation Without Additional Oncogenic Alterations.** *Ophthalmology*
  Solomon, D. A., Ramani, B., Eiger-Moscovich, M., Milman, T., Uludag, G., Crawford, J. B., Phan, I., Char, D. H., Shields, C. L., Eagle, R. C., Bastian, B. C., Bloomer, M. M., Pekmezci, et al
  2022; 129 (12): 1429-1439

- **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

- **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

- **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

- **Intratumor and informatic heterogeneity influence meningioma molecular classification.** *Acta neuropathologica*
  Vasudevan, H. N., Choudhury, A., Hilz, 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

- **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., Hilz, S., Berger, M. S., Solomon, D. A., Costello, et al
  2022; 24 (9): 1471-1481

- **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

- **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

- **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

- **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., Schafernak, 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
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