Stanford



Hannes Vogel MD

Professor of Pathology and of Pediatrics (Pediatric Genetics) and, by courtesy, of Neurosurgery, Neurology and Neurological Sciences and of Comparative Medicine

NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

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Bio

BIO

Hannes Vogel is Professor of Pathology and Pediatrics at Stanford University where he has served as Director of Neuropathology since 2002. His background in medical training also includes board certification in Pediatrics. Dr. Vogel completed a residency in Anatomic Pathology at Beth Israel Hospital in Boston, followed by a neuropathology fellowship at Stanford University under Dikran Horoupian. He returned to Baylor College of Medicine in Houston, TX where he became the Director of Neuropathology at Texas Children's Hospital before returning to Stanford. His principle interests include mitochondrial diseases, muscle and nerve pathology, brain tumors and the toxic effects of therapy, and forensic neuropathology.

CLINICAL FOCUS

- Neuropathology
- Muscle and nerve pathology
- Forensic neuropathology
- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Pathology
- Professor-Univ Med Line, Pediatrics - Medical Genetics
- Professor-Univ Med Line (By courtesy), Neurosurgery
- Professor-Univ Med Line (By courtesy), Neurology and Neurological Sciences
- Professor-Univ Med Line (By courtesy), Comparative Medicine
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Senator, Pathology Department, Stanford School of Medicine Faculty Senate, (2018-2024)
- Voting member, Panel 7, Stanford IRB, (2012- present)
- Voting member, Panel 4, Stanford IRB, (2002-2007)

HONORS AND AWARDS

- Oscar Salvatierra Award for Exceptional Service, Stanford School of Medicine (June 1, 2023)
- Award for Excellence in Preclinical Teaching, Henry J. Kaiser Family Foundation (June 11, 2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Councilor, International Society of Neuropathology (2019 - present)

PROFESSIONAL EDUCATION

- Fellowship: TEXAS CHILDREN'S HOSPITAL (2001) TX
- Residency: Stanford University Pathology Residency (1989) CA
- Residency: UCSF Pediatric Residency (1984) CA
- Residency: Baylor College of Medicine Pediatric Residency (1982) TX
- Medical Education: Baylor College of Medicine (1980) TX
- Residency: Beth Israel Deaconess Medical Center Harvard Medical School (1987) MA
- Board Certification: Pediatrics, American Board of Pediatrics (1986)
- Board Certification: Anatomic Pathology, American Board of Pathology (1989)
- Board Certification: Neuropathology, American Board of Pathology (1989)
- BA, Rice University , Biology (1975)
- MD, Baylor College of Medicine (1980)

COMMUNITY AND INTERNATIONAL WORK

- Baltic Association of Neuropathology, Latvia, Lithuania, Estonia

LINKS

- Pathology website listing: http://med.stanford.edu/profiles/Hannes_Vogel/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interests include nerve and muscle pathology, mitochondrial diseases, pediatric neurooncology, and transgenic mouse pathology.

Publications

PUBLICATIONS

- **Clinicopathologic mismatch in young-onset parkinsonism: Multiple system atrophy masquerading as a neurotransmitter synthesis disorder** *CLINICAL NEUROPATHOLOGY*
  Newman, J., Kim, J., Nirschl, J., Sampson, J., Vogel, H.
  2026

- **A bivalent molecular glue linking lysine acetyltransferases to oncogene-induced cell death.** *Cell*
  Nix, M. N., Gourisankar, S., Bowman, K. J., Nettles, S. A., Yang, H., Dwyer, B. G., Sarott, R. C., Abuzaid, H., Martinez, M. M., Phillips, N., Cabaud, V., Hakobyan, A., Arakelov, et al

2026

- **Peripheral Nerve Infiltration by CAR T-cells in a Case of Mononeuritis Multiplex after Ciltacabtagene Autoleucel.** *Blood cell therapy*
  Hosoya, H., Song, K. W., Dyson, K., Dufort, G., Sahaf, B., Rosenberg, A., Sidana, S., Miklos, D., Vogel, H., Fernandez-Pol, S., Muppidi, S., Scott, B., Mikkilineni, et al
  2026; 9 (2): 55-59

- **Enriched methylomes of low-input and fragmented DNA using fragment ligation EXclusive methylation sequencing.** *Nucleic acids research*
  Yu, J., Ahmann, L. S., Yao, Y. Y., Toland, A., Snowden, A., Ho, C., Loyfer, N., Kaplan, T., Vogel, H., Wang, L., Howitt, B. E., Holmes, B., Lowe, et al
  2026; 54 (9)

- **Inactivation of CDKN2AARF Promotes p53-Independent Remodeling of the PDAC Tumor Microenvironment.** *Cancer research*
  Ferreira, S., Flowers, B. M., Choi, W. Y., Farina-Morillas, M., Gatto, A., Bhattacharyya, S., Boross, G., Hassan, G., Mulligan, A. S., Vogel, H., Wood, L. D., Weaver, V. M., Winslow, et al
  2026

- **Functional Architecture of the Human Insula Revealed by Causal Intracranial Mapping.** *Research square*
  Parvizi, J., Quabs, J., Pantis, S., Chen, G., Huang, W., Ma, E., Del Vecchio, M., Lyu, D., Wang, C., Avanzini, P., Buch, V., Ramayya, A., Caspers, et al
  2026

- **LEVETIRACETAM THERAPEUTICALLY TARGETS GABAERGIC SYNAPSES IN DIFFUSE MIDLINE GLIOMA**
  Barron, T., Yalcin, B., Su, M., Mochizuki, A., Drexler, R., Cantor, E., Byun, Y., Gavish, A., Shamardani, K., Xu, H., Ni, L., Soni, N., Tlais, et al
  OXFORD UNIV PRESS INC.2025: v69

- **LAT1 EXPRESSION SCALE AND ADAPTIVE DESIGN FOR A PHASE IIA TRIAL OF QBS72S IN BREAST CANCER BRAIN METASTASES**
  Taiwo, R., Harary, P. M., Trinh, T. T. H., Granucci, M., Bertrand, S., Carlson-Clarke, B., Chernikova, S. B., Therkelsen, K., Arora, M., Melisko, M. E., Iv, M., Vogel, H., Han, et al
  OXFORD UNIV PRESS INC.2025: v143-v144

- **Inactivation of CDKN2A ^{ARF} promotes p53-independent remodeling of the PDAC tumor microenvironment**
  Ferreira, S., Flowers, B. M., Choi, W., Farina-Morillas, M., Gatto, A., Bhattacharyya, S., Boross, G., Hassan, G., Mulligan, A. S., Vogel, H., Wood, L. D., Weaver, V. M., Winslow, et al
  AMER ASSOC CANCER RESEARCH.2025

- **Neuropathological findings of very low-density lipoprotein receptor-related cerebellar hypoplasia in a full-term fetus.** *Journal of neuropathology and experimental neurology*
  Newman, J. M., Vogel, H.
  2025

- **Analysis of knockout mice reveals critical female-specific roles for the Hippo pathway component PTPN14.** *Genes & development*
  McCrea, E. M., Makrides, N., Tabata, T., Reineking, W., Vilches-Moure, J. G., Wang, M., Lake, J. S., Vogel, H., Howitt, B., Zhang, X., Attardi, L. D.
  2025

- **Arterial spin labeling perfusion MRI differentiates between radiation necrosis and tumor in brain metastases treated with stereotactic radiosurgery.** *Neuro-oncology advances*
  Nguyen, H. H., Ng, N. N., Awasthi, S., Vogel, H., Iv, M.
  2025; 7 (1): vdaf091

- **Clival fibrous dysplasia in which short interval disease progression posed a diagnostic challenge in a skeletally mature patient: a case report.** *Journal of medical case reports*
  Tinnut, S., Pham, N., Nayak, J., Fernandez-Miranda, J. C., Vogel, H., Fischbein, N.
  2025; 19 (1): 83

- **GABAergic neuron-to-glioma synapses in diffuse midline gliomas.** *Nature*
  Barron, T., Yalçın, B., Su, M., Byun, Y. G., Gavish, A., Shamardani, K., Xu, H., Ni, L., Soni, N., Mehta, V., Maleki Jahan, S., Kim, Y. S., Taylor, et al
  2025

- **Cellular morphometric biomarkers and large language model predict prognosis and treatment response in neuroblastoma patients: A retrospective and double-blind prospective single arm clinical study.** *European journal of cancer (Oxford, England : 1990)*
  Wang, X., Mao, A. W., Pan, S., Wang, D., He, L., Vogel, H., Mao, J. H., Weiss, W., Li, T., Chang, H.

2025; 218: 115273

- **BIOPROCESSING OF VIABLE SURGICAL PEDIATRIC BRAIN TUMOR SPECIMENS FOR GENOME-GUIDED PERSONALIZED DRUG TESTING**
  Nasajpour, E., Tran, C., Garcia, C., Xing, L., Lyle, G., Guinle, M., Bagley, B., Mahaney, K., Vogel, H., Learned, K., Vaske, O., Grant, G., Prolo, et al
  OXFORD UNIV PRESS INC.2024

- **A Novel Mouse Model for Cerebral Inflammatory Demyelination in X-Linked Adrenoleukodystrophy: Insights into Pathogenesis and Potential Therapeutic Targets.** *Annals of neurology*
  Hashemi, E., Srivastava, I. N., Aguirre, A., Yoseph, E. T., Kaushal, E., Awani, A., Ryu, J. K., Akassoglou, K., Talebian, S., Chu, P., Pisani, L., Musolino, P., Steinman, et al
  2024

- **CDC42BPA::BRAF represents a novel fusion in desmoplastic infantile ganglioglioma/desmoplastic infantile astrocytoma.** *Neuro-oncology advances*
  Barros Guinle, M. I., Nirschl, J. J., Xing, Y. L., Nettnin, E. A., Arana, S., Feng, Z. P., Nasajpour, E., Pronina, A., Garcia, C. A., Grant, G. A., Vogel, H., Yeom, K. W., Prolo, et al
  2024; 6 (1): vdae050

- **A rare non-gadolinium enhancing sarcoma brain metastasis with microenvironment dominated by tumor-associated macrophages.** *Acta neuropathologica communications*
  Rogawski, D., Wheeler, J., Nie, E., Zhu, W., Villanueva, E., Coffey, G., Ma, Q., Ganjoo, K., Fischbein, N., Iv, M., Vogel, H., Nagpal, S.
  2024; 12 (1): 15

- **A novel mouse model of cerebral adrenoleukodystrophy highlights NLRP3 activity in lesion pathogenesis.** *bioRxiv : the preprint server for biology*
  Hashemi, E., Narain Srivastava, I., Aguirre, A., Tilahan Yoseph, E., Kaushal, E., Awani, A., Kyu Ryu, J., Akassoglou, K., Talebian, S., Chu, P., Pisani, L., Musolino, P., Steinman, et al
  2023

- **CLINICOPATHOLOGIC CHARACTERIZATION OF DIFFUSE PEDIATRIC-TYPE HIGH-GRADE GLIOMA, H3-WILDTYPE AND IDH-WILDTYPE: AN AGGRESSIVE AND GENOMICALLY COMPLEX GROUP OF TUMORS AFFECTING CHILDREN AND ADULTS**
  Wu, Z., Turakulov, R., Chung, H., Dazelle, K., Abdullaev, Z., Costa, F., Neto, O., Wadhwani, N., Mao, Q., Robinson, L., Marshall, M., Frosch, M., Cathcart, et al
  OXFORD UNIV PRESS INC.2023

- **Treatment Course and Outcomes of Intracranial Teratomas in Pediatric Patients: A Retrospective 15-Year Case Series Study.** *Pediatric neurosurgery*
  Wu, A., Jin, M. C., Vogel, H., Hiniker, S., Campen, C., Prolo, L. M., Grant, G. A.
  2023; 58 (6): 429-438

- **Regeneration of neuromuscular synapses after acute and chronic denervation by inhibiting the gerozyme 15-prostaglandin dehydrogenase.** *Science translational medicine*
  Bakooshli, M. A., Wang, Y. X., Monti, E., Su, S., Kraft, P., Nalbandian, M., Alexandrova, L., Wheeler, J. R., Vogel, H., Blau, H. M.
  2023; 15 (717): eadg1485

- **Synthetic whole-slide image tile generation with gene expression profile-infused deep generative models.** *Cell reports methods*
  Carrillo-Perez, F., Pizurica, M., Ozawa, M. G., Vogel, H., West, R. B., Kong, C. S., Herrera, L. J., Shen, J., Gevaert, O.
  2023; 3 (8): 100534

- **Rewiring cancer drivers to activate apoptosis.** *Nature*
  Gourisankar, S., Krokhotin, A., Ji, W., Liu, X., Chang, C., Kim, S. H., Li, Z., Wenderski, W., Simanauskaite, J. M., Yang, H., Vogel, H., Zhang, T., Green, et al
  2023

- **PET imaging of TREM1 identifies CNS-infiltrating myeloid cells in a mouse model of multiple sclerosis.** *Science translational medicine*
  Chaney, A. M., Cropper, H. C., Jain, P., Wilson, E., Simonetta, F., Johnson, E. M., Alam, I. S., Patterson, I. T., Swarovski, M., Stevens, M. Y., Wang, Q., Azevedo, C., Nagy, et al
  2023; 15 (702): eabm6267

- **Pediatric Brain Tumours: Lessons from the Immune Microenvironment.** *Current oncology (Toronto, Ont.)*
  Yao, B., Delaidelli, A., Vogel, H., Sorensen, P. H.
  2023; 30 (5): 5024-5046

- **Cytodifferentiation of pituitary tumors influences pathogenesis and cavernous sinus invasion.** *Journal of neurosurgery*
  Asmaro, K., Zhang, M., Rodrigues, A. J., Mohyeldin, A., Vigo, V., Nernekli, K., Vogel, H., Born, D. E., Katznelson, L., Fernandez-Miranda, J. C.
  2023: 1-9

- **CHEK2 mutations in pediatric brain tumors.** *Neuro-oncology advances*
  Tlais, D., Barros Guinle, M. I., Wheeler, J. R., Prolo, L. M., Vogel, H., Partap, S.
  2023; 5 (1): vdad038

- **Multimodal deep learning to predict prognosis in adult and pediatric brain tumors.** *Communications medicine*
  Steyaert, S., Qiu, Y. L., Zheng, Y., Mukherjee, P., Vogel, H., Gevaert, O.
  2023; 3 (1): 44

- **Purification and characterization of human neural stem and progenitor cells.** *Cell*
  Liu, D. D., He, J. Q., Sinha, R., Eastman, A. E., Toland, A. M., Morri, M., Neff, N. F., Vogel, H., Uchida, N., Weissman, I. L.
  2023; 186 (6): 1179

- **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

- **Rapid Deployment of Whole Slide Imaging for Primary Diagnosis in Surgical Pathology at Stanford Medicine Responding to Challenges of the COVID-19 Pandemic** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*
  Rojansky, R., Jhun, I., Dussaq, A. M., Chirieleison, S. M., Nirschl, J. J., Born, D., Fralick, J., Hetherington, W., Kerr, A. M., Lavezo, J., Lawrence, D. B., Lummus, S., Macasaet, et al
  2023; 147 (3): 359-367

- **Multifocal demyelinating leukoencephalopathy and oligodendroglial lineage cell loss with immune effector cell-associated neurotoxicity syndrome (ICANS) following CD19 CAR T-cell therapy for mantle cell lymphoma.** *Journal of neuropathology and experimental neurology*
  Nie, E. H., Ahmadian, S. S., Bharadwaj, S. N., Acosta-Alvarez, L., Threlkeld, Z. D., Frank, M. J., Miklos, D. B., Monje, M., Scott, B. J., Vogel, H.
  2023

- **BRD8 maintains glioblastoma by epigenetic reprogramming of the p53 network.** *Nature*
  Sun, X., Klingbeil, O., Lu, B., Wu, C., Ballon, C., Ouyang, M., Wu, X. S., Jin, Y., Hwangbo, Y., Huang, Y. H., Somerville, T. D., Chang, K., Park, et al
  2022

- **BIOPROCESSING OF SURGICAL PEDIATRIC BRAIN TUMOR SPECIMENS FOR GENOME-GUIDED PERSONALIZED DRUG TESTING**
  Nasajpour, E., Lyle, G., Lancero, H., Garcia, C., Learned, K., Gibson, E., Tran, C., Schouten, T., Vogel, H., Mahaney, K., Prolo, L., Vaske, O., Grant, et al
  OXFORD UNIV PRESS INC.2022: 232

- **ANALYSIS OF EXPRESSION SIGNATURES OF MATCHED PRIMARY GASTROINTESTINAL CANCER AND BRAIN METASTASES USING NANOSTRING NCOUNTER TECHNOLOGY**
  Cheko, A., Burnside, G., Vogel, H., Gephart, M., Petritsch, C.
  OXFORD UNIV PRESS INC.2022: 131

- **MRGFUS-DELIVERED FLUORESCENT EGFR/EGFRVIII ANTIBODY ENABLES THERANOSTIC IMAGING OF PEDIATRIC HIGH-GRADE GLIOMA AND PREDICTS RESPONSE TO TARGETED THERAPY**
  Zhou, Q., Aryal, M., Leonel, J., Santoso, M., Zlitni, A., Vogel, H., Cayrol, R., Li, G., Moseley, M.
  OXFORD UNIV PRESS INC.2022: 217

- **Clinical Features, Neuropathology, and Surgical Outcome in Patients With Refractory Epilepsy and Brain Somatic Variants in the SLC35A2 Gene.** *Neurology*
  Barba, C., Blumcke, I., Winawer, M. R., Hartlieb, T., Kang, H., Grisotto, L., Chipaux, M., Bien, C. G., Hermanovska, B., Porter, B. E., Lidov, H. G., Cetica, V., Woermann, et al
  2022

- **Rapid Deployment of Whole Slide Imaging for Primary Diagnosis in Surgical Pathology at Stanford Medicine.** *Archives of pathology & laboratory medicine*
  Rojansky, R., Jhun, I., Dussaq, A. M., Chirieleison, S. M., Nirschl, J. J., Born, D., Fralick, J., Hetherington, W., Kerr, A. M., Lavezo, J., Lawrence, D. B., Lummus, S., Macasaet, et al

2022

- **Clinical Significance and Molecular Annotation of Cellular Morphometric Subtypes in Lower Grade Gliomas discovered by Machine Learning.** *Neuro-oncology*
  Liu, X., Jin, X., Ahmadian, S. S., Yang, X., Tian, S., Cai, Y., Chawla, K., Snijders, A. M., Xia, Y., van Diest, P. J., Weiss, W. A., Mao, J., Li, et al
  2022

- **Major tumor regressions in H3K27M-mutated diffuse midline glioma (DMG) following sequential intravenous (IV) and intracerebroventricular (ICV) delivery of GD2-CAR T cells**
  Majzner, R. G., Mahdi, J., Ramakrishna, S., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Barsan, V., Richards, R., Campen, C., Reschke, A., Toland, A., Baggott, et al
  AMER ASSOC CANCER RESEARCH.2022

- **Mild respiratory COVID can cause multi-lineage neural cell and myelin dysregulation.** *Cell*
  Fernández-Castañeda, A., Lu, P., Geraghty, A. C., Song, E., Lee, M. H., Wood, J., O'Dea, M. R., Dutton, S., Shamardani, K., Nwangwu, K., Mancusi, R., Yalçın, B., Taylor, et al
  2022

- **RNA-binding proteins direct myogenic cell fate decisions.** *eLife*
  Wheeler, J. R., Whitney, O. N., Vogler, T. O., Nguyen, E. D., Pawlikowski, B., Lester, E., Cutler, A., Elston, T., Dalla Betta, N., Parker, K. R., Yost, K. E., Vogel, H., Rando, et al
  2022; 11

- **Pediatric Nemaline Myopathy: A Systematic Review Using Individual Patient Data** *JOURNAL OF CHILD NEUROLOGY*
  Christophers, B., Lopez, M. A., Gupta, V. A., Vogel, H., Baylies, M.
  2022; 37 (7): 652-663

- **Pediatric Nemaline Myopathy: A Systematic Review Using Individual Patient Data.** *Journal of child neurology*
  Christophers, B., Lopez, M. A., Gupta, V. A., Vogel, H., Baylies, M.
  2022; 37 (7): 652-663

- **A PHASE I TRIAL OF PANOBINOSTAT FOLLOWING RADIATION THERAPY IN CHILDREN WITH DIFFUSE INTRINSIC PONTINE GLIOMA (DIPG) OR H3K27M-MUTATED THALAMIC DIFFUSE MIDLINE GLIOMA (DMG): REPORT FROM THE PEDIATRIC BRAIN TUMOR CONSORTIUM (PBTC-047)**
  Monje, M., Cooney, T., Glod, J., Huang, J., Baxter, P., Vinitsky, A., Kilburn, L., Robison, N. J., Peer, C. J., Figg, W. D., Fouladi, M., Fangusaro, J., Onar-Thomas, et al
  OXFORD UNIV PRESS INC.2022: 19

- **MAJOR TUMOR REGRESSIONS IN H3K27M-MUTATED DIFFUSE MIDLINE GLIOMA (DMG) FOLLOWING SEQUENTIAL INTRAVENOUS (IV) AND INTRACEREBROVENTRICULAR (ICV) DELIVERY OF GD2-CAR T-CELLS**
  Monje, M., Majzner, R., Mahdi, J., Ramakrishna, S., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Barsan, V., Richards, R., Campen, C., Reschke, A., Toland, et al
  OXFORD UNIV PRESS INC.2022: 20-21

- **Septal rage in a human. A case report**
  Bharani, K., Parvizi, J., Cobos, I., Vogel, H.
  OXFORD UNIV PRESS INC.2022: 479-480

- **Multifocal demyelinating leukoencephalopathy and oligodendroglial lineage cell loss with CD19 CAR T-cell lymphoma therapy**
  Nie, E., Ahmadian, S., Bharadwaj, S., Acosta-Alvarez, L., Threlkeld, Z., Frank, M., Miklos, D., Born, D., Scott, B., Monje, M., Vogel, H.
  OXFORD UNIV PRESS INC.2022: 464

- **Somatic variants in diverse genes leads to a spectrum of focal cortical malformations.** *Brain : a journal of neurology*
  Lai, D., Gade, M., Yang, E., Koh, H. Y., Lu, J., Walley, N. M., Buckley, A. F., Sands, T. T., Akman, C. I., Mikati, M. A., McKhann, G. M., Goldman, J. E., Canoll, et al
  2022

- **MRI Radiogenomics of Pediatric Medulloblastoma: A Multicenter Study.** *Radiology*
  Zhang, M., Wong, S. W., Wright, J. N., Wagner, M. W., Toescu, S., Han, M., Tam, L. T., Zhou, Q., Ahmadian, S. S., Shpanskaya, K., Lummus, S., Lai, H., Eghbal, et al
  2022: 212137

- **Molecular and Clinicopathologic Characterization of Post-Transplant Lymphoproliferative Disorder (PTLD) Involving the Central Nervous System**
  Guney, E., Lucas, C., Alexandrescu, S., Mobley, B., Bannykh, S., Powell, S., Toland, A., Vogel, H., Davidson, C., Schafernak, K., Neltner, J., Boue, D., Hattab, et al
  SPRINGERNATURE.2022: 1192-1193

- **RB depletion is required for the continuous growth of tumors initiated by loss of RB.** *PLoS genetics*
  Doan, A., Arand, J., Gong, D., Drainas, A. P., Shue, Y. T., Lee, M. C., Zhang, S., Walter, D. M., Chaikovsky, A. C., Feldser, D. M., Vogel, H., Dow, L. E., Skotheim, et al
  2021; 17 (12): e1009941

- **Inefficient quality control of ribosome stalling during APP synthesis generates CAT-tailed species that precipitate hallmarks of Alzheimer's disease.** *Acta neuropathologica communications*
  Rimal, S., Li, Y., Vartak, R., Geng, J., Tantray, I., Li, S., Huh, S., Vogel, H., Glabe, C., Grinberg, L. T., Spina, S., Seeley, W. W., Guo, et al
  2021; 9 (1): 169

- **GD2 CAR T cells mediate clinical activity and manageable toxicity in children and young adults with DIPG and H3K27M-mutated diffuse midline gliomas.**
  Majzner, R. G., Ramakrishna, S., Mochizuki, A., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Richards, R., Campen, C., Reschke, A., Mahdi, J., Toland, A., Baggott, et al
  AMER ASSOC CANCER RESEARCH.2021

- **Intracranial infantile hemangioma - rare entity and common pitfalls: A comprehensive multidisciplinary approach from Neurosurgery, Neurooncology and Neuropathology** *CLINICAL NEUROPATHOLOGY*
  Eibach, S., Moes, G., Kim, J., Zovickian, J., Vogel, H., Pang, D.
  2021; 40 (4): 180-188

- **Electrical stimulation of human neural stem cells via conductive polymer nerve guides enhances peripheral nerve recovery.** *Biomaterials*
  Song, S., McConnell, K. W., Amores, D., Levinson, A., Vogel, H., Quarta, M., Rando, T. A., George, P. M.
  2021; 275: 120982

- **GD2 CAR T-CELLS MEDIATE CLINICAL ACTIVITY AND MANAGEABLE TOXICITY IN CHILDREN AND YOUNG ADULTS WITH H3K27M-MUTATED DIPG AND SPINAL CORD DMG**
  Majzner, R., Ramakrishna, S., Mochizuki, A., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Richards, R., Campen, C., Reschke, A., Mahdi, J., Martin, A., Toland, et al
  OXFORD UNIV PRESS INC.2021: 49-50

- **EGFR-targeted intraoperative fluorescence imaging detects high-grade glioma with panitumumab-IRDye800 in a phase 1 clinical trial.** *Theranostics*
  Zhou, Q., van den Berg, N. S., Rosenthal, E. L., Iv, M., Zhang, M., Vega Leonel, J. C., Walters, S., Nishio, N., Granucci, M., Raymundo, R., Yi, G., Vogel, H., Cayrol, et al
  2021; 11 (15): 7130-7143

- **Homozygous PISD truncating variant in an adult patient presenting with chronic dysphagia, hoarseness, pectus carinatum, hearing loss, and hemiparesis**
  Carlston, C., Martin, P., Archibald, H., Wamsley, M., Greene, M., Vogel, H., Slavotinek, A.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.2021: S185

- **Molecular imaging of a fluorescent antibody against epidermal growth factor receptor detects high-grade glioma.** *Scientific reports*
  Zhou, Q., Vega Leonel, J. C., Santoso, M. R., Wilson, C., van den Berg, N. S., Chan, C. T., Aryal, M., Vogel, H., Cayrol, R., Mandella, M. J., Schonig, F., Lu, G., Gambhir, et al
  2021; 11 (1): 5710

- **Cell of Origin Influences Pancreatic Cancer Subtype.** *Cancer discovery*
  Flowers, B. M., Xu, H., Mulligan, A. S., Hanson, K. J., Seoane, J. A., Vogel, H., Curtis, C., Wood, L. D., Attardi, L. D.
  2021; 11 (3): 660-677

- **Creatine transport and pathological changes in creatine transporter deficient mice.** *Journal of inherited metabolic disease*
  Wawro, A. M., Gajera, C. R., Baker, S. A., Nirschl, J. J., Vogel, H. n., Montine, T. J.
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