

**Jeremy Shaw Wetzel, M.D.**

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**WORK:**

2023-present      **Surgeon**  
 Anderson Center for Hair

**EDUCATION:**

2013-2020      **Neurological Surgery Residency**  
 Emory University School of Medicine  
 Department of Neurological Surgery

2009-2013      **Doctor of Medicine (M.D.)**  
 University of Texas at Houston Medical School, Houston, TX  
 USLME Step 1: 265 (99)  
 USMLE Step 2 CK: 264 (99)

2005-2008      **Bachelor of Arts in Biology, High Honors**  
 University of Texas at Austin, Austin, TX

**HONORS AND AWARDS:**

Residency:  
 2017      Resident Research Presentation Award, GNS 2017 Fall Meeting

Medical School:  
 2013      *Recipient*, Distinguished student in the Neurosciences Award  
 2012      *Inductee*, Alpha Omega Alpha, Delta Chapter of Texas  
 2010      *Recipient*, NIH/NINDS Medical Student Summer Research Award

**RESEARCH ACTIVITIES:**

Residency:  
 2013-2021      Translational research, large animal studies, Mentor: Nicholas M. Boulis, M.D.  
 – *Peripheral nerve regeneration, sheep model, portion of NIH R01 grant.*  
     – Investigation of “nanofiber multi tube nerve guidance conduit” for peripheral  
     nerve regeneration.  
 – *ALS, pig model.*  
     – Cervical spinal Cord Injection of AAV capsid vector with gene that works to  
     selectively silence the production of SOD1 mRNA. Pre-clinical dosage,  
     safety and biodistribution study. (Voyager Therapeutics).  
 – *Development of a Procine Model of Spinal Cord Glioma.*  
 – *Gene therapy for Fredrich’s Ataxia, nonhuman primate model.*  
     – Using frameless stereotactic targeting of the cerebellar dentate nucleus for

Medical School:  
 2010-2013      vector-mediated delivery of the Frataxin gene. (Agilis PTC Therapeutics)  
*Thromboelastography (TEG) as a novel modality to help guide therapy in acute ischemic  
 stroke.*  
 University of Texas Medical School at Houston, Department of Neurology, Stroke Team

Mentor: James C. Grotta, M.D.

**Undergraduate:**

2006-2008

*Microdialysis in vivo (Rats) to observe affects of ethanol on [DA] in nucleus accumbens*  
University of Texas at Austin, Pharmacology/Toxicology  
Mentor: Rueben Gonzales Ph.D.; Elaina Howard, Ph.D.

**PUBLICATIONS:**

Karl Johe, Nicholas Boulis, Charles Vite, Jeremy Wetzel, Faical Isbain, David Quach. A One-Time Treatment to Continuously and Permanently Deliver Lysosomal Enzymes to the CNS. *Molecular Genetics* Feb 2022. doi: 10.1016/j.ymgme.2021.11.157

Federici T, Hardcastle N, Texakalidis P, Tora M, S, **Wetzel J**, Riley J, P, Boulis N, M: A Stereotactic Device for Intraparenchymal Spinal Cord Injections: Latest Developments for Practical Clinical Use. *Stereotact Funct Neurosurg* 2021. doi: 10.1159/000512504

Tora MS, Texakalidis P, Stewart N, **Wetzel J**, Rindler RS, Hardcastle N, Nagar PP, Krasnopeyev A, Roach C, James R, Bruce JN, Canoll P, Federici T Oshinski JN, Boulis NM. Lentiviral Vector Induced Modeling of High-Grade Spinal Cord Glioma in Minipigs. *Sci Rep* 10, 5291 (2020). doi:10.1038/s41598-020-62167-9

**Wetzel JS**, Waldman AD, Texakalidis P, Buster B, Eshraghi SR, Wheelus J, Reisner A, Chern JJ. Survival and failure trends of cerebrospinal fluid shunts with distal slit valves: comparative study and literature review. *J Neurosurg Pediatr.* 2019 Dec 13;:1-8. doi: 10.3171/2019.9.PEDS18579. [Epub ahead of print] PubMed PMID: 31835242.

**Wetzel JS**, Hardcastle N, Tora MS, Federici T, Frey S, Novek J, Arulanandam T, Johnson M, Pielemeier R, Boulis NM. Frameless Stereotactic Targeting of the Cerebellar Dentate Nucleus in Nonhuman Primates: Translatable Model for the Surgical Delivery of Gene Therapy. *Stereotact Funct Neurosurg.* 2019;97(5-6):293-302. doi: 10.1159/000504858. Epub 2020 Jan 8. PubMed PMID: 31914453.

MS Tora, N Hardcastle, P Texakalidis, **J Wetzel**, JJ Chern. Elbow flexion in neonatal brachial plexus palsy: a meta-analysis of graft versus transfer. *Childs Nerv Syst.* 2019 Jun;35(6):929-935. doi: 10.1007/s00381-019-04133-z.

P Texakalidis, MS Tora, **JS Wetzel**, JJ Chern. Endoscopic third ventriculostomy versus shunt for pediatric hydrocephalus: a systematic literature review and meta-analysis. *Childs Nerv Syst.* 2019 May 25. doi: 10.1007/s00381-019-04203-2.

P Texakalidis, D Xenos, MS Tora, **JS Wetzel**, NM Boulis. Comparative Safety and Efficacy of Percutaneous Approaches for the Treatment of Trigeminal Neuralgia: a Systematic Review and Metaanalysis. *Clin Neurol Neurosurg.* 2019 Jul;182:112-122. doi: 10.1016/j.clineuro.2019.05.011.

P Texakalidis, MS Tora, J Lamanna, **JS Wetzel**, NM Boulis. Double Fascicular Nerve Transfer to Musculocutaneous Branches for Restoration of Elbow Flexion in Brachial Plexus Injury. *Cureus* 11 (4), 2019. doi: 10.7759/cureus.4517

P Texakalidis, MS Tora, JJ Lamanna, **J Wetzel**, NM Boulis. Combined Radial to Axillary and Spinal

Accessory (SA) to Suprascapular Nerve (SSN) Transfers May Confer Superior Shoulder Abduction Compared to Single SA to SSN Transfer. *World Neurosurg.* 2019.doi:10.1016/j.wneu.2019.03.075.

**Wetzel JS**, Heaner DP, Gabel BC, Tubbs RS, Chern JJ. Clinical evaluation and surveillance imaging of children with myelomeningocele and shunted hydrocephalus: a follow-up study. *J Neurosurg Pediatr.* 2018 Oct 1:1-6. doi: 10.3171/2018

**Wetzel J**, Bray D, Wrubel D. Chronic encapsulated intraventricular hematoma in a pediatric patient: case report. *J Neurosurg Pediatr.* 2018 May 4:1-6.

Mahmood Z, Malcolm JG, **Wetzel JS**, Ahmad FU Unusual cause of encephalopathy after brain surgery. *BMJ Case Rep.* 2017 Dec 1, 2017

McDonald MM, **Wetzel J**, Fraser S, Elliott A, Bowry R, Kawano-Castillo JF, Cai C, Sangha N, Messier J, Hassler A, Archeval-Lao J. Thrombelastography does not predict clinical response to rtPA for acute ischemic stroke. *Journal of Thrombosis and Thrombolysis.* 2015 Sep 25:1-6.

Huang RS, McDonald MM, **Wetzel JS**, Kawano-Castillo J, Parker S, Archeval-Lao J, Cai C, Rahbar MH, Nguyen AN1, Baba SJ, Grotta JC. Clot Strength as Measured by Thrombelastography Correlates with Platelet Reactivity in Stroke Patients. *Ann Clin Lab Sci.* 2015 Spring;45(3):301-7.

Huang RS, McDonald MM, **Wetzel JS**, Kawano-Castillo J, **Parker S**, Archeval-Lao J, Cai C, Rahbar MH, Nguyen AN, Baba SJ, Grotta JC. Clot Strength as Measured by Thrombelastography Correlates with Platelet Reactivity in Stroke Patients. *Ann Clin Lab Sci.* 2015 Spring;45(3):301-7.

Kawano-Castillo J, Ward E, Elliott A, **Wetzel J**, Hassler A, McDonald M, Parker SA, Archeval-Lao J, Tremont C, Cai C, Pivalizza E, Rahbar MH, Grotta JC. Thrombelastography detects possible coagulation disturbance in patients with intracerebral hemorrhage with hematoma enlargement. *Stroke.* 2014 Mar;45(3):683-8.

McDonald MM, Archeval-Lao JM, Cai C, Peng H, Sangha N, Parker SA, **Wetzel J**, Riney SA, Cherches MF, Guthrie GJ, Roper TC, Kawano-Castillo JF, Pandurengan R, Rahbar MH, Grotta JC. Iodinated contrast does not alter clotting dynamics in acute ischemic stroke as measured by thromboelastography. *Stroke.* 2014 Feb;45(2):462-6.

Andrea Elliott MD, **Jeremy Wetzel BA**, Tiffany Roper BA, Evan Pivalizza MBChB, James McCarthy MD, Cristina Wallace MD, Mary Jane Hess BSN, Hui Peng PhD, Mohammad H Rahbar PhD, Navdeep Sangha MD, James C Grotta MD. Thromboelastography in Patients with Acute Ischemic Stroke. *International Journal of Stroke.* Feb 2015; 1 (2): 194-201.

Howard EC, Schier CJ, **Wetzel JS**, Gonzales RA. The dopamine response in the nucleus accumbens core-shell border differs from that in the core and shell during operant ethanol self-administration. *Alcoholism: Clinical and Experimental Research.* 2009 Aug; 33(8): 1355-65

Howard EC, Schier CJ, **Wetzel JS**, Duvauchelle CL, Gonzales RA. The shell of the nucleus accumbens has a higher dopamine response compared with the core after non-contingent intravenous ethanol administration. *Neuroscience.* 2008 June 26;154(3):1042-53.

## **ORAL PRESENTATIONS AND POSTERS:**

*Residency:*

- 2018 *Oral.* **“Survival and Failure Trends of CSF Shunts with Distal Slit Valves: Comparative Study and Literature Review”** Georgia Neurosurgical Society Annual Fall Meeting 2018, Lake Oconee, Georgia.
- 2017 *Oral.* **“The Utility of Routine Surveillance Imaging in Children with Spina Bifida Aperta and Shunted Hydrocephalus”**. Georgia Neurosurgical Society Annual Fall Meeting 2017, Lake Oconee, Georgia.
- 2016 *Poster.* **“The Management of Minor Traumatic Intracranial Hemorrhage”**. Southern Neurosurgical Society 67<sup>th</sup> Annual Meeting, San Antonio, Texas, March 2016.
- Medical School:*
- 2011 *Poster.* “Thromboelastography, Clot Subtype, and Response to Therapy in Acute Ischemic Stroke”. Eric Ward, Amanda Hassler, Jessica Messier, Tiffany Roper, **Jeremy Wetzel**, Hui Peng, Navdeep Sangha, James Grotta. 18<sup>th</sup> Annual Neuroscience Research Center Composium, UT Houston Medical School, Houston, Texas.
- 2011 *Poster.* “Thromboelastography in Acute Ischemic Stroke”. **Jeremy S. Wetzel**, Andrea M. Elliott, Cristina M. Wallace, Son Duong, Evan G. Pivalizza, Nusrat Harun, Mary Jane Hess, James C. Grotta. AHA/ASA International Stroke Conference 2011, Los Angeles, California.
- Undergraduate:*
- 2008 *Oral Presentation:* “Dopamine Increases in the Core and Shell of the Nucleus Accumbens during Ethanol Self-Administration in Rats”. Jeremy Wetzel. National Conference on Undergraduate Research, Salisbury University, Salisbury, MD.

## **PERSONAL INTEREST:**

Reading, fitness, hiking/backpacking, cooking, motorcycle riding

## **REFERENCES:**

Available upon request