

Geoffrey T. Manley

Professor in Residence and Vice Chairman of Neurological Surgery

Co-Director and Principal Investigator, Brain and Spinal Injury Center (BASIC)

Chief of Neurosurgery, [San Francisco](#) General Hospital and Professor of Neurosurgery at the University of California San Francisco (UCSF).

He is a trauma neurosurgeon with clinical interests in brain injury, spinal cord injury and neurocritical critical care. His translational research interests span from the laboratory to the bedside.

Dr. Manley is a graduate of the Medical Scientist Training Program at Cornell University Medical College, where he earned his medical degree as well as his doctorate degree in Neuroscience. He completed his residency in Neurosurgery at UCSF and a Postdoctoral Fellowship in Molecular Biophysics. Dr. Manley is also a faculty member of the California Institute for Quantitative Biosciences and the UCSF Center for Clinical and Translational Informatics.

Dr. Manley is an internationally recognized expert in neurotrauma. He has published over 120 manuscripts that reflect a wide range of research interests from molecular aspects of brain injury to the clinical care of head trauma patients. He has helped to define new molecular mechanisms of injury to the nervous system that may lead to new treatments for these devastating injuries. He is also considered a leader in the rapidly growing field of advanced neuromonitoring and clinical informatics for critical care. His many honors include the General Motors Trauma Research Award and the Trauma Research Award from the American College of Surgeons. He has served as a Consultant for the Prehospital Guidelines Committee for the World Health Organization and on a number of committees for the National Institutes of Health.

Education, Training, and Previous Positions 1988: BS, University of Kentucky, Lexington 1994: PhD, Cornell University Graduate School of Medical Sciences 1994-1995: Postdoctoral Fellow, Memorial Sloan Kettering Cancer Center, Laboratory of Molecular Neuro-Oncology 1995: MD, Cornell University Medical College 1995-1996: Internship in General Surgery, UCSF 1996-2001: Residency in Neurological Surgery, UCSF 1998-1999: Postdoctoral Fellow: UCSF Cardiovascular Research Institute, Laboratory of Molecular Biophysics Selected Professional Memberships and Appointments American Association for the Advancement of Science American Association of Neurological Surgeons American Federation for Clinical Research American Medical Association Brain Edema Society California Association of Neurological Surgeons Congress of Neurological Surgeons International Society of Oxygen Transport to Tissue Joint Council of State Neurosurgical Societies Neurotrauma Society Selected Honors and Awards 1996: Most Valuable Intern Award, San Francisco General Hospital 1997: Housestaff Award for Excellence in Teaching , UCSF 1997: Northern California Committee on Trauma Resident Award 1997: First Place, Residents Trauma Research Competition, Western Regional Committee on Trauma 1998: General Motors Trauma Research Award 1998: First Place, 20th Annual Resident's Trauma Paper Competition, American College of Surgeons, Committee on Trauma 1998: Earl Young Award, Western Trauma Association 1999: First Place, Prehospital Research Competition , Prehospital Research Forum 2000: Neurotrauma Resident Award for Brain Injury Research, American Association of Neurological Surgeons 2006: Heroes & Hearts Award, San Francisco General Hospital Foundation Selected Recent Publications Yao X, Smith AJ, Jin BJ, Zador Z, Manley GT, Verkman AS. Aquaporin-4 regulates the velocity and frequency of cortical spreading depression in mice. *Glia*. 2015 May 6. doi: 10.1002/glia.22853.

Hawryluk GW, Manley GT. Classification of traumatic brain injury: past, present, and future. *Handb*

Clin Neurol. 2015;127:15-21.

Yue JK, Pronger AM, Ferguson AR, Temkin NR, Sharma S, Rosand J, Sorani MD, McAllister TW, Barber J, Winkler EA, Burchard EG, Hu D, Lingsma HF, Cooper SR, Puccio AM, Okonkwo DO, Diaz-Arrastia R, Manley GT; The COBRIT Investigators; The TRACK-TBI Investigators. Association of a common genetic variant within ANKK1 with six-month cognitive performance after traumatic brain injury. *Neurogenetics*. 2015 Jan 30. [Epub ahead of print] PubMed PMID: 25633559.

Wright DW, Yeatts SD, Silbergleit R, Palesch YY, Hertzberg VS, Frankel M, Goldstein FC, Caveney AF, Howlett-Smith H, Bengelink EM, Manley GT, Merck LH, Janis LS, Barsan WG; NETT Investigators. Very early administration of progesterone for acute traumatic brain injury. *N Engl J Med*. 2014 Dec 25;371(26):2457-66.

Yao X, Derugin N, Manley GT, Verkman AS. Reduced brain edema and infarct volume in aquaporin-4 deficient mice after transient focal cerebral ischemia. *Neurosci Lett*. 2015 Jan 1;584:368-72.

Sorani MD, Yue JK, Sharma S, Manley GT, Ferguson AR; TRACK TBI Investigators, Cooper SR, Dams-O'Connor K, Gordon WA, Lingsma HF, Maas AI, Menon DK, Morabito DJ, Mukherjee P, Okonkwo DO, Puccio AM, Valadka AB, Yuh EL. Genetic data sharing and privacy. *Neuroinformatics*. 2015 Jan;13(1):1-6.

McMahon PJ, Panczykowski DM, Yue JK, Puccio AM, Inoue T, Sorani MD, Lingsma HF, Maas AI, Valadka AB, Yuh EL, Mukherjee P, Manley GT, Okonkwo DO, Casey SS, Cheong M, Cooper SR, Dams-O'Connor K, Gordon WA, Hricik AJ, Lawless K, Menon D, Schnyer DM, Vassar MJ. Measurement of the Glial Fibrillary Acidic Protein and Its Breakdown Products GFAP-BDP Biomarker for the Detection of Traumatic Brain Injury Compared to Computed Tomography and Magnetic Resonance Imaging. *J Neurotrauma*. 2015 Apr 15;32(8):527-33.

Yuh EL, Hawryluk GW, Manley GT. Imaging concussion: a review. *Neurosurgery*. 2014 Oct;75 Suppl 4:S50-63.

Lingsma HF, Yue JK, Maas AI, Steyerberg EW, Manley GT; TRACK-TBI Investigators, Cooper SR, Dams-O'Connor K, Gordon WA, Menon DK, Mukherjee P, Okonkwo DO, Puccio AM, Schnyer DM, Valadka AB, Vassar MJ, Yuh EL. Outcome prediction after mild and complicated mild traumatic brain injury: external validation of existing models and identification of new predictors using the TRACK-TBI pilot study. *J Neurotrauma*. 2015 Jan 15;32(2):83-94.

Rosenthal G, Ng I, Moscovici S, Lee KK, Lay T, Martin C, Manley GT. Polyetheretherketone implants for the repair of large cranial defects: a 3-center experience. *Neurosurgery*. 2014 Nov;75(5):523-9; discussion 528-9.

Ratcliff JJ, Adeoye O, Lindsell CJ, Hart KW, Pancioli A, McMullan JT, Yue JK, Nishijima DK, Gordon WA, Valadka AB, Okonkwo DO, Lingsma HF, Maas AI, Manley GT; TRACK-TBI investigators. ED disposition of the Glasgow Coma Scale 13 to 15 traumatic brain injury patient: analysis of the Transforming Research and Clinical Knowledge in TBI study. *Am J Emerg Med*. 2014 Aug;32(8):844-50.

Yuh EL, Cooper SR, Mukherjee P, Yue JK, Lingsma HF, Gordon WA, Valadka AB, Okonkwo DO, Schnyer DM, Vassar MJ, Maas AI, Manley GT; TRACK-TBI INVESTIGATORS. Diffusion tensor imaging for outcome prediction in mild traumatic brain injury: a TRACK-TBI study. *J Neurotrauma*. 2014 Sep 1;31(17):1457-77.

Moore M, Winkelman A, Kwong S, Segal SP, Manley GT, Shumway M. The emergency department social work intervention for mild traumatic brain injury (SWIFT-Acute): a pilot study. *Brain Inj*.

2014;28(4):448-55.

Kolias AG, Hutchinson PJ, Menon DK, Manley GT, Gallagher CN, Servadei F. Decompressive craniectomy for acute subdural hematomas. *J Neurosurg*. 2014 May;120(5):1247-9; author reply 1249.

Ivan ME, Nathan JK, Manley GT, Huang MC. Placement of a subdural evacuating port system for management of iatrogenic hyperacute subdural hemorrhage following intracranial monitor placement. *J Clin Neurosci*. 2013 Dec;20(12):1767-70.

Inoue T, Manley GT, Patel N, Whetstone WD. Medical and surgical management after spinal cord injury: vasopressor usage, early surgerys, and complications. *J Neurotrauma*. 2014 Feb 1;31(3):284-91.

McMahon P, Hricik A, Yue JK, Puccio AM, Inoue T, Lingsma HF, Beers SR, Gordon WA, Valadka AB, Manley GT, Okonkwo DO; TRACK-TBI Investigators. Symptomatology and functional outcome in mild traumatic brain injury: results from the prospective TRACK-TBI study. *J Neurotrauma*. 2014 Jan 1;31(1):26-33.

Manley GT, Maas AI. Traumatic brain injury: an international knowledge-based approach. *JAMA*. 2013 Aug 7;310(5):473-4.

Dams-O'Connor K, Spielman L, Singh A, Gordon WA, Lingsma HF, Maas AI, Manley GT, Mukherjee P, Okonkwo DO, Puccio AM, Schnyer DM, Valadka AB, Yue JK, Yuh EL; TRACK-TBI Investigators. The impact of previous traumatic brain injury on health and functioning: a TRACK-TBI study. *J Neurotrauma*. 2013 Dec 15;30(24):2014-20.

Sivaganesan A, Manley GT, Huang MC. Informatics for neurocritical care: challenges and opportunities. *Neurocrit Care*. 2014 Feb;20(1):132-41.

Diaz-Arrastia R, Wang KK, Papa L, Sorani MD, Yue JK, Puccio AM, McMahon PJ, Inoue T, Yuh EL, Lingsma HF, Maas AI, Valadka AB, Okonkwo DO, Manley GT; TRACK-TBI Investigators. Acute biomarkers of traumatic brain injury: relationship between plasma levels of ubiquitin C-terminal hydrolase-L1 and glial fibrillary acidic protein. *J Neurotrauma*. 2014 Jan 1;31(1):19-25.

Grossman AD, Cohen MJ, Manley GT, Butte AJ. Altering physiological networks using drugs: steps towards personalized physiology. *BMC Med Genomics*. 2013;6 Suppl 2:S7.

Yue JK, Vassar MJ, Lingsma HF, Cooper SR, Okonkwo DO, Valadka AB, Gordon WA, Maas AI, Mukherjee P, Yuh EL, Puccio AM, Schnyer DM, Manley GT; TRACK-TBI Investigators. Transforming research and clinical knowledge in traumatic brain injury pilot: multicenter implementation of the common data elements for traumatic brain injury. *J Neurotrauma*. 2013 Nov 15;30(22):1831-44.

Weiner MW, Friedl KE, Pacifico A, Chapman JC, Jaffee MS, Little DM, Manley GT, McKee A, Petersen RC, Pitman RK, Yaffe K, Zetterberg H, Obana R, Bain LJ, Carrillo MC. Military risk factors for Alzheimer's disease. *Alzheimers Dement*. 2013 Jul;9(4):445-51.

Inoue T, Lin A, Ma X, McKenna SL, Creasey GH, Manley GT, Ferguson AR, Bresnahan JC, Beattie MS. Combined SCI and TBI: recovery of forelimb function after unilateral cervical spinal cord injury (SCI) is retarded by contralateral traumatic brain injury (TBI), and ipsilateral TBI balances the effects of SCI on paw placement. *Exp Neurol*. 2013 Oct;248:136-47.

Tosetti P, Hicks RR, Theriault E, Phillips A, Koroshetz W, Draghia-Akli R; Workshop Participants. Toward an international initiative for traumatic brain injury research. *J Neurotrauma*. 2013 Jul

15;30(14):1211-22.

Tarapore PE, Findlay AM, Lahue SC, Lee H, Honma SM, Mizuiri D, Luks TL, Manley GT, Nagarajan SS, Mukherjee P. Resting state magnetoencephalography functional connectivity in traumatic brain injury. *J Neurosurg*. 2013 Jun;118(6):1306-16.

Okonkwo DO, Yue JK, Puccio AM, Panczykowski DM, Inoue T, McMahon PJ, Sorani MD, Yuh EL, Lingsma HF, Maas AI, Valadka AB, Manley GT; Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) Investigators. GFAP-BDP as an acute diagnostic marker in traumatic brain injury: results from the prospective transforming research and clinical knowledge in traumatic brain injury study. *J Neurotrauma*. 2013 Sep 1;30(17):1490-7.

Yuh EL, Mukherjee P, Lingsma HF, Yue JK, Ferguson AR, Gordon WA, Valadka AB, Schnyer DM, Okonkwo DO, Maas AI, Manley GT; TRACK-TBI Investigators. Magnetic resonance imaging improves 3-month outcome prediction in mild traumatic brain injury. *Ann Neurol*. 2013 Feb;73(2):224-35.

Laroche M, Kutcher ME, Huang MC, Cohen MJ, Manley GT. Coagulopathy after traumatic brain injury. *Neurosurgery* 2012;70(6):1334-45.

Yuh EL, Cooper SR, Ferguson AR, Manley GT. Quantitative CT improves outcome prediction in acute traumatic brain injury. *J Neurotrauma* 2012;29(5):735-46.

Lu DC, Zador Z, Yao J, Fazlollahi F, Manley GT. Aquaporin-4 Reduces Post-Traumatic Seizure Susceptibility by Promoting Astrocytic Glial Scar Formation in Mice. *J Neurotrauma*. 2011 Sep 22. [Epub ahead of print].

Sughrue ME, Bloch OG, Manley GT, Stiver SI. Marked reduction in wound complication rates following decompressive hemicraniectomy with an improved operative closure technique. *J Clin Neurosci* 2011;18(9):1201-5.

Flint AC, Gean AD, Manley GT, Rao VA, Sheridan WF, von Koch CS. Temporizing treatment of hyperacute subdural hemorrhage by subdural evacuation port system placement. *J Neurosurg* 2011;115(4):844-8.

Beattie MS, Manley GT. Tight squeeze, slow burn: inflammation and the aetiology of cervical myelopathy. *Brain* 2011;134(Pt 5):1259-61.

Maas AI, Menon DK, Lingsma HF, Pineda JA, Sandel ME, Manley GT. Re-orientation of clinical research in traumatic brain injury: report of an international workshop on comparative effectiveness research. *J Neurotrauma* 2012;29(1):32-46.

Nakagawa A, Manley GT, Gean AD, Ohtani K, Armonda R, Tsukamoto A, Yamamoto H, Takayama K, Tominaga T. Mechanisms of primary blast-induced traumatic brain injury: insights from shock-wave research. *J Neurotrauma* 2011;28(6):1101-19.

Sorani MD, Manley GT, Claude Hemphill J, Baranzini SE. Dynamic, multi-level network models of clinical trials. *Pac Symp Biocomput* 2011:38-49.

Monson KL, Matsumoto MM, Young WL, Manley GT, Hashimoto T. Abrupt increase in rat carotid blood flow induces rapid alteration of artery mechanical properties. *J Mech Behav Biomed Mater* 2011;4(1):9-15.

Nakagawa K, Hills NK, Kamel H, Morabito, Diane, Patel PV, Manley GT, Hemphill JC 3rd. The effect of

decompressive hemicraniectomy on brain temperature after severe brain injury. *Neurocrit Care* 2011;15(1):101-6.

Whyte J, Vasterling J, Manley GT. Common data elements for research on traumatic brain injury and psychological health: current status and future development. *Arch Phys Med Rehabil* 2010;91(11):1692-6.

Manley GT, Diaz-Arrastia R, Brophy M, Engel D, Goodman C, Gwinn K, Veenstra TD, Ling G, Ottens AK, Tortella F, Hayes RL. Common data elements for traumatic brain injury: recommendations from the biospecimens and biomarkers working group. *Arch Phys Med Rehabil* 2010;91(11):1667-72.

Gean AD, Fischbein NJ, Purcell DD, Aiken AH, Manley GT, Stiver SI. Benign anterior temporal epidural hematoma: indolent lesion with a characteristic CT imaging appearance after blunt head trauma. *Radiology* 2010;257(1):212-8.

Rosenthal G, Sanchez-Mejia RO, Phan N, Hemphill JC 3rd, Martin C, Manley GT. Incorporating a parenchymal thermal diffusion cerebral blood flow probe in bedside assessment of cerebral autoregulation and vasoreactivity in patients with severe traumatic brain injury. *J Neurosurg* 2011;114(1):62-70.

Maas AI, Roozenbeek B, Manley GT. Clinical trials in traumatic brain injury: past experience and current developments. *Neurotherapeutics* 2010;7(1):115-26.

Cohen MJ, Grossman AD, Morabito D, Knudson MM, Butte AJ, Manley GT. Identification of complex metabolic states in critically injured patients using bioinformatic cluster analysis. *Crit Care* 2010;14(1):R10.

Voytek B, Secundo L, Bidet-Caulet A, Scabini D, Stiver SI, Gean AD, Manley GT, Knight RT. Hemicraniectomy: a new model for human electrophysiology with high spatio-temporal resolution. *J Cogn Neurosci* 2010;22(11):2491-502.

Chun KA, Manley GT, Stiver SI, Aiken AH, Phan N, Wang V, Meeker M, Cheng SC, Gean AD, Wintermark M. Interobserver variability in the assessment of CT imaging features of traumatic brain injury. *J Neurotrauma* 2010;27(2):325-30.

Grossman AD, Cohen MJ, Manley GT, Butte AJ. Infection in the intensive care unit alters physiological networks. *BMC Bioinformatics* 2009;10 Suppl 9:S4.

Wan JJ, Cohen MJ, Rosenthal G, Haitsma IK, Morabito DJ, Derugin N, Knudson MM, Manley GT. Refining resuscitation strategies using tissue oxygen and perfusion monitoring in critical organ beds. *J Trauma* 2009;66(2):353-7.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=geoffrey_t._manley

Last update: **2024/06/07 02:59**

