

Clayton T. Bauer, MD, PhD, FAANS
Board-Certified Neurosurgeon

Cirriculum Vitae and
Expert Witness Testimony List

Clayton T. Bauer, MD, PhD, FAANS

Tampa Neurosurgery, LLC
claytonbauer@tampaneurosurgery.com

EDUCATION

M.D./Ph.D.	Aug. 2008 – May 2015
Virginia Commonwealth University School of Medicine	Richmond, VA
Bachelor of Science	Jan. 2004 – May 2007
Wake Forest University	Winston-Salem, NC

POSITIONS HELD

Neurosurgeon / Spine Surgeon Orlando Health	November 2025 – Present Tampa, FL
Neurosurgeon / Spine Surgeon Tampa Neurosurgery	August 2025 – Present Tampa, FL
Neurosurgeon / Spine Surgeon Orthopaedic Medical Group of Tampa Bay	July 2022 – September 2025 Tampa, FL
Resident Physician University of South Florida Department of Neurosurgery Additional training: Elective year of residency (July 2019 – July 2020) spent pursuing additional training in spine surgery with Geoffrey Cronen (orthopedic spine surgeon at Florida Medical Clinic in Tampa, FL)	July 2015 – June 2022 Tampa, FL
Medical Student (M3-M4) Virginia Commonwealth University School of Medicine	Aug. 2013 – May 2015 Richmond, VA
Graduate Student Virginia Commonwealth University Department of Pharmacology and Toxicology Principal Investigator: S. Stevens Negus, Ph.D. Project: Abuse liability assessment of monoamine releasers	July 2010 – May 2013 Richmond, VA
Medical Student (M1-M2) Virginia Commonwealth University School of Medicine	Aug. 2008 – July 2010 Richmond, VA
Laboratory Technician Wake Forest University Department of Physics	May 2007 – Aug. 2008 Winston-Salem, NC

Principal Investigator: Jed C. Macosko, Ph.D.
Project: Organelle transport in primary neuron cultures

Research Assistant
Wake Forest University
Department of Neurobiology and Anatomy
Principal Investigator: Christopher P. Turner, Ph.D.
Project: Calcium homeostasis in the developing brain

May 2005 - May 2007
Winston-Salem, NC

Research Assistant
Wake Forest University
Department of Biology
Principal Investigator: Wayne Silver, Ph.D.
Project: Trigeminal nerve response to olfactory irritants

Jan. 2005 - May 2006
Winston-Salem, NC

LICENSING

American Board of Neurological Surgery – Certified 2025
United States Medical Licensing Exams (STEP 1, 2, 3) – Completed 2015
American Board of Neurologic Surgery Primary Exam – Completed 2020
American Board of Neurologic Surgery Oral Exam - Eligible
Drug Enforcement Agency License - Active
Florida Medical Board License - Active

AWARDS AND HONORS

Honors:
(2007) Bachelor of Science, Cum Laude – Wake Forest University

Awards:
(2013) Travel Award – American Society for Pharmacology and Experimental Therapeutics
(2012) Best Student Presentation – Society for Stimulus Properties of Drugs
(2007) Walter S. Flory Service Award – Wake Forest University
(2006) Elton C. Cocke Award for Excellence in Biology – Wake Forest University

ORGANIZATIONS AND COMMITTEES

Societies:
(2025 – Present) AANS Spine Section
(2025 – Present) Congress of Neurosurgeons
(2022 – Present) North American Spine Society
(2015 – Present) American Association of Neurological Surgeons
(2010 – 2013) American Society for Pharmacology and Experimental Therapeutics
(2005 – 2013) Society for Neuroscience
(2012) Society for Stimulus Properties of Drugs
(2008 – 2011) American Association for the Advancement of Science
(2005 – 2007) American Medical Student Association

Committees:

- (2026 – 2027) AdventHealth Surgical Subspecialty Peer Review Committee, Member
- (2023 – 2025) Orthopedic Medical Group of Tampa Bay Finance Committee, Member
- (2014 – 2015) VCU School of Medicine LCME Data Collection Committee, Member
- (2011 – 2015) VCU School of Medicine Admissions Committee, Member
- (2010 – 2015) VCU School of Medicine M.D./Ph.D. Admissions Committee, Member
- (2012) VCU Emergency Preparedness Committee, Member
- (2011 – 2012) VCU School of Medicine Honor Council, Member
- (2003) Stetson University Honor Council, Vice President

Other:

- (2011 – 2012) VCU MD/PhD Program, Co-President

RESEARCH FUNDING

F30 DA034478 (NIH/NIDA)

4/01/13 – 5/15/15

Mechanisms of Psychostimulant Abuse: Project designed to test the hypothesis that the dopamine-mediated abuse liability of monoamine releasers can be limited by the release of serotonin via 5HT_{2C} receptors. Confirmation of this hypothesis would provide a basis for developing both safer monoamine releaser therapeutics and novel treatments for monoamine releaser abuse.

PATENTS, PUBLICATIONS, and EDUCATION

Patents:

1. **Bauer CT** (2005) Minimally Invasive Adjustable Acetabular Reamer. Patent # 6,918,914

Book chapters and publications by date:

1. Tong X, Wang Y, **Bauer CT**, Jia B, Zhang X, Huo X, Luo G, Wang A, Ma N, Gao F, Mo G, Song L, Sun X, Liu L, Deng Y, Li X, Wang B, Ma G, Wang Y, Ren Z, Miao Z. (2021) Aspiration Thrombectomy for Acute Stroke Patients Lags Behind in China: Data from ANGEL-ACT Registry. *Therapeutic Advances in Neurological Disorders*. Accepted.
2. Tong X, Wang Y, Fiehler J, **Bauer C**, Jia B, Zhang X, Huo X, Luo G, Wang A, Pan Y, Ma N, Gao F, Mo D, Song L, Sun X, Liu L, Deng Y, Li X, Wang B, Ma G, Wang Y, Ren Z, Miao Z. (2020) Thrombectomy Versus Combined Thrombolysis and Thrombectomy in Acute Stroke Patients: A Matched-Control Study. *Stroke*. Accepted.
3. Jia B, Ren Z, Mokin M, Burgin W, **Bauer C**, Fiehler J, Mo D, Ma N, Gao F, Huo X, Luo G, Wang A, Pan Y, Song L, Sun X, Zhang X, Gui L, Song C, Peng Y, Wu J, Zhao S, Zhou Z, Li Y, Jing P, Yang L, Liu Y, Zhao Q, Liu Y, Peng X, Gao QC, Guo Z, Chen W, Li W, Cheng X, Xu Y, Zhang Y, Zhang G, Lu Y, LU X, Wang D, Wang Y, Li H, Ling L, Peng G, Zhang J, Zhang K, Li S, Qi Z, Xu H, Tong X, Ma G, Guo X, Deng Y, Leng X, Leung T, Liebeskind D, Wang L, Wang Y, Miao Z. (2020) Current Status of Endovascular Treatment for Acute Large Vessel Occlusion in China: a Real-world Nationwide Registry. *Stroke*. Accepted.

4. Ren Z, Mokin M, **Bauer CT**, Miao Z, Burgin WS, Wang Y. (2019) Indications for Mechanical Thrombectomy—Too Wide or Too Narrow? *World Neurosurgery*. 127:492-9.
5. **Bauer CT** (2016) Status Epilepticus in Mark Greenberg (Ed.), *Handbook of Neurosurgery*, 8th edition. New York, New York: Thieme Medical Publishers.
6. Lazenka MF, Suyama JA, **Bauer CT**, Banks ML, & Negus SS (2016) Sex Differences in Abuse-related Neurochemical and Behavioral Effects of 3, 4-methylenedioxymethamphetamine (MDMA) in Rats. *Pharmacology Biochemistry and Behavior* 152:52-60.
7. **Bauer CT**, Negus SS, Blough BE, Banks ML (2016) Cocaine-like Discriminative Stimulus Effects of Phendimetrazine and Phenmetrazine in Rats. *Behavioral Pharmacology* 27(2 and 3-special issue):192-195.
8. **Bauer CT**, Banks ML, Blough BE, Negus SS (2015) Role of 5-HT_{2C} Receptors in Effects of Monoamine Releasers on Intracranial Self-Stimulation in Rats. *Psychopharmacology* 232(17):3249-3258.
9. *Banks ML, **Bauer CT**, Blough BE, Rothman RB, Partilla JS, Negus SS (2014) Abuse-related Effects of Dual Dopamine/Serotonin Releasers with Varying Potency to Release Norepinephrine in Male Rats and Rhesus Monkeys. *Experimental and Clinical Psychopharmacology* 22(3):274-284. *Drs. Banks and Bauer are co-first authors.
10. **Bauer CT**, Banks ML, Negus SS (2014) The Effect of Chronic Amphetamine Treatment on Cocaine-Induced Facilitation of Intracranial Self-Stimulation in Rats. *Psychopharmacology (Berl)*. 231(12):2461-2470.
11. **Bauer CT**, Banks ML, Blough BE, Negus SS (2013) Rate-Dependent Effects of Monoamine Releasers on Intracranial Self-Stimulation in Rats: Implications for Abuse Liability Assessment. *Behavioral Pharmacology* 24(5,6):448-458.
12. **Bauer CT**, Banks ML, Blough BE, Negus SS (2013) Use of Intracranial Self-Stimulation to Evaluate Abuse-Related and Abuse-Limiting Effects of Monoamine Releasers in Rats. *British Journal of Pharmacology* 168(4):850-862.
13. Shtridelman Y, Holzwarth GM, **Bauer CT**, Gassman NR, DeWitt DA, Macosko JC (2009) *In vivo* Multimotor Force–Velocity Curves by Tracking and Sizing Sub-Diffraction Limited Vesicles. *Cellular and Molecular Bioengineering* 2: 190-199.
14. **Bauer CT**, Shtridelman Y, Lema Tome CM, Grim JQ, Turner CP, Tytell M, Macosko J (2008) Vesicular Organelle Transport Changes With *In Vitro* Population Density. *Neuroscience Letters* 441: 173-177.
15. Lema Tome CM, Miller R, **Bauer C**, Smith C, Blackstone K, Leigh A, Busch J, Turner CP (2008) Decline in Age-dependent, MK801-induced Injury Coincides With Developmental Switch in Calcium Binding Protein Expression: Somatosensory and Motor Cortex. *Developmental Psychobiology* 50: 665-679.

16. Lema Tome CM, Miller R, **Bauer C**, Nottingham C, Smith C, Blackstone K, Brown L, Bryan R, Leigh A, Brady M, Busch J, Turner CP (2007) Decline in Age-dependent, MK801-induced Injury Coincides With Developmental Switch in Parvalbumin Expression: Cingulate and Retrosplenial Cortex. *Developmental Psychobiology* 49: 606-518.
17. Lema Tome CM, **Bauer C**, Nottingham C, Smith C, Blackstone K, Brown L, Hlavaty C, Nelson C, Daker R, Sola R, Miller R, Bryan R, Turner CP (2006) MK801-induced Caspase-3 in the Postnatal Brain: Inverse Relationship with Calcium Binding Proteins. *Neuroscience* 141: 1351-1363.

Abstracts and presentations by date:

1. **Bauer CT**, Banks, ML, Negus SS. Effects of chronic amphetamine treatment on cocaine-induced facilitation of intracranial self-stimulation in rats. (Experimental Biology [ASPET] and American Society of Physician Scientists – 2013)
2. Der-Avakian A, Boye S, **Bauer CT**, Malanga CJ. Highs and Lows: Insights from the intracranial self-stimulation procedure about normal and abnormal brain reward function in neuropsychiatric disorders. (Invited panelist: Winter Conference for Brain Research – 2013)
3. **Bauer CT**, Banks ML, Blough BE, Negus SS. Selectivity to release dopamine vs. norepinephrine as a determinant of cocaine like discriminative stimulus effects of monoamine releasers in rats. (Society for the Stimulus Properties of Drugs – 2012)
4. **Bauer CT**, Banks, ML, Blough BE, Negus SS. Abuse-related and abuse-limiting effects of monoamine releasers on intracranial self-stimulation in rats (Society for Neuroscience – 2012)
5. **Bauer CT**, Banks ML, Blough BE, Negus SS. Effects of m-fluoroamphetamine and fenfluramine on intracranial self-stimulation (ICSS) in rats (Experimental Biology [ASPET] – 2011)
6. Shtridelman Y, Holzwarth G, **Bauer C**, Gassman N, DeWitt D, Macosko J. Extending the Range of In Vivo Multimotor Force-Velocity Curves by Sizing Vesicles Below the Diffraction Limit (Biophysical Society – 2009)
7. **Bauer CT**, Lema Tome CM, Turner CP. Developmental Switch in Calcium Binding Protein Expression: Cingulate Cortex (Symposium for Young Neuroscientists and Professors of the South East [SYNAPSE] – 2007)
8. Lema Tome CM, Miller R, **Bauer C**, Smith C, Blackstone A, Turner CP. Age-dependent MK801-induced injury and developmental patterns of calcium binding proteins are inversely related: caudate-putamen (Society for Neuroscience – 2007)
9. **Bauer C**, Lema Tome CM, Blackstone A, Smith C, Miller R, Turner CP. Susceptibility to MK801 and developmental patterns of calcium binding proteins are inversely related: cingulate and retrosplenial cortices (Society for Neuroscience – 2007)
10. Nottingham CU, Lema Tomé CM, **Bauer C**, Smith C, Miller R, Leigh A, Bryan R, Blackstone K, Brown L, Brady M, Turner CP. Developmentally Regulated Calcium Binding Proteins Expression in the Rat Brain (Society for Neuroscience – 2006)

11. Lema Tomé CM, **Bauer C**, Nottingham C, Miller R, Smith C, Bryan R, Blackstone K, Brown L, Turner CP. MK801-induced Caspase-3 in the Postnatal Brain: Inverse Relationship with Calcium Binding Proteins (Society for Neuroscience – 2006)

Selected Lectures and Education

- What is new in the management of ischemic stroke? (Grand Rounds, USF Department of Neurosurgery, 2017)
- What is new in the management of subarachnoid hemorrhage? (Grand Rounds, USF Department of Neurosurgery, 2017)
- “Deep Brain Stimulation as a Treatment for Substance Abuse: Future or Fallacy?” (“Letters to Atticus” lecture series, USF Department of Neurosurgery, 2017)
- Developed curriculum and gave multiple presentations for the USF Neurosurgery Written Board Review Course (2019)
- “Alcohol Withdrawal in the Inpatient Setting” (“Letters to Atticus” lecture series, USF Department of Neurosurgery, 2020)
- Proctor: Spine education course at USF for junior residents with a focus on posterior approaches to the thoracolumbar spine (2020 VA/USF Junior Resident Spine Course, 2020)
- “Osteotomies and When to Use Them” (Spine Conference Educational Series, USF Department of Neurosurgery, 2020)
- “Spinal Surgery: Common Procedures” (“Lunch and Learn” series for billing and coding specialists, 2023)
- “Spine Anatomy and Basics of Spine Imaging” (“Fracture Conference” series for Athletic Trainers and other health professionals, Orthopaedic Medical Group of Tampa Bay, 2023)
- “Basics of Spine Anatomy” (“Lunch and Learn” series for billing and coding specialists, Orthopaedic Medical Group of Tampa Bay, 2024)
- “Lumbar Pathology and Common Mimics” (“Fracture Conference” series for Athletic Trainers and other health professionals, Orthopaedic Medical Group of Tampa Bay, 2024)
- “Determining MCC in the spine: disc herniations” (Workers’ Compensation Conference, Orthopaedic Medical Group of Tampa Bay, 2024)
- Proctor/Lecturer: Spine course for South American spine surgeons with a focus on demonstrating new technologies (2024, 2025)
- “Dealing with Cowboy Surgeons” (Florida Association of Nurse Anesthetists, 2026)

Expert Witness Deposition/Trial Testimony List

*April 2023 – Present (exclusive of Worker's Compensation); **bold** = trial or trial deposition*

Deposition/Trial	Attorney	Date	Claimant	Court	Case No.
Trial Deposition	Aaryn Ledoux (Defense)	9/28/2023	Flynn	Hillsborough	2020-24576
Deposition	Paula Campione (Defense)	04/15/2024	Orona	Hillsborough	22-CA-009527
Deposition	Lauren Haynes (Defense)	4/23/2024	Kraft	Hernando	2022-CA-1074
Trial	Lauren Haynes (Defense)	05/16/2024	Kraft	Hernando	2022-CA-1074
Deposition	Sherilee Samuel (Defense)	5/31/2024	Vasquez	US District Court Middle District	8:23-cv-01165
Deposition	Kristin Gonzalez (Defense)	6/24/2024	Madsen	Polk County	2022CA00244600000
Deposition	Michael Kraft (Defense)	8/2/2024	Vargas-Herrera	Hillsborough	23-CA-001997
Deposition	Charles Reynolds? (Defense)	12/13/2024	Rolsten	US District Court Middle District	8:23-cv-00564-SDM-AA
Deposition	John Stifler (Defense)	02/28/2025	Wright	Polk	2023-CA-000413
Deposition	Robert Blank, Madison Miller (Defense)	03/20/2025	Jones	Hillsborough	8:24-CV-00072
Deposition	Gabriel Silveria (Plaintiff)	05/15/2025	Makely	Pasco	2023-CA-000178
Trial Deposition	Gabriel Silveria (Plaintiff)	06/17/2025	Makely	Pasco	2023-CA-000178
Depositions	Frank Canales (Defense)	10/13/2025 12/1/2025	Martinez	Hillsborough	2022-CA-000632
Deposition	Cater Haskins (Defense)	10/28/2025	Buchanan	Hillsborough	23-CA-003598
Deposition	Allison Jaeger (Defense)	11/10/2025	Gonzalez	Pinellas	24-001783-CI
Deposition	Allison Jaeger (Defense)	8/3/2026	Whidden	Hillsborough	25-CA-005160
Deposition	Kayla Roney (Defense)	8/10/2026	Eaton	Hillsborough	25-CA-003037