

Ryan D. Tackla

Address: **Oklahoma Spine and Brain Institute**
6802 S. Olympia Avenue, Suite 300
Tulsa, Oklahoma 74132
918-749-0762

Professional Education

BS. Biology, With Honors, 2006
Ohio University Athens, Ohio
Major: Biological Sciences-Pre Medicine
GPA: 3.862 (overall)
Dean's List
Magna Cum Laude, Biology Departmental Honors

MD. Allopathic Medicine, 2010
University of Cincinnati College of Medicine, Cincinnati, Ohio
Medical Student Scholar-Neuroscience

Residency-Neurosurgery, 2010-2016
University of Cincinnati College of Medicine, Cincinnati, Ohio
The Mayfield Clinic, Cincinnati, Ohio

Fellowship-Cerebrovascular & Endovascular Neurosurgery, 2016-2017
University of Cincinnati College of Medicine, Cincinnati, Ohio
The Mayfield Clinic, Cincinnati, Ohio

Research Experience

Biological Sciences Department, The Ohio University, Athens, Ohio
Undergraduate Research fellow (September 2004-June 2006)

- Performed experiments involving conservation and population genetics alongside a professor and a graduate student.
- Gained experience in DNA separation and analysis techniques such as PCR, agarose, and SDS electrophoresis.
- Collected, organized, and analyzed microsatellite variation data.
- Became proficient in using computer programs such as SPSS, Excel, and GelDoc.

Chemistry Department, The Ohio University, Athens, Ohio
Undergraduate Research fellow (January 2005-November 2005)

- Performed experiments involving synthesis, separation, and identification of various biologically active, acylated azido alcohols.
- Applied computer programs such as SciFinder and ChemDraw.
- Used various types of chemical spectroscopic analysis techniques such as NMR, IR, and mass spectroscopy.

Department of Neurosurgery, The University of Cincinnati College of Medicine, Cincinnati, Ohio
Clinical Research Assistant (June 2007-May 2010)

- Performed retrospective chart analyses
- Examined the relationship between initial GCS assessment and future outcome of patients suffering motorcycle collision-related traumatic brain injury.

- Assisted in the acquisition of data to be used in the establishment of a comprehensive preoperative fMRI and tractography assessment protocol at 3T. This protocol has been implemented in intraoperative neuronavigation integration at our institution.

Department of Neurosurgery, The University of Cincinnati College of Medicine, Cincinnati, Ohio

Resident Research fellow (July 2014-June 2015)

- Performed rodent experiments involving access and canalization of arterial system, stereotaxic electrocorticography, introduction of mass lesion and attendant monitoring of resultant cortical spreading depolarizations, animal sacrifice with subsequent cortex harvesting, staining, and lesion analysis as it relates to spreading depolarization frequency and duration

Awards & Honors

Golden Key International Honor Society
 Alpha Lambda Delta – Freshman Honor Society
 Outstanding Student Honor Society
 Phi Kappa Phi Honor Society
 Phi Beta Kappa
 Rush Elliot Pre-Medical Award
 Medical Student Scholar-Neuroscience

Presentations & Publications

- Leach JL, McPherson CM, Tackla R, Warnick RE, Narayan RK, Theodosopoulos P, Zuccarello M, Tew JM. **Functional MRI and Tractography at 3T: Combined Intraoperative Integration for Brain Tumor Resection**. ASNR, 2008 (oral presentation).
- **qMRA: An Exciting, New, Noninvasive Assessment of Flow in Cerebral Blood Vessels** (grand rounds presentation).
 University of Cincinnati College of Medicine Department of Neurosurgery, Cincinnati, OH, July, 2009
- **Dural Arteriovenous Fistulas** (grand rounds presentation).
 University of Cincinnati College of Medicine Department of Neurosurgery, Cincinnati, OH, November, 2012
- Tackla, Ryan D.; Keller, Jeffrey T.; Ernst, Robert J.; Farley, Chad W.; Bohinski, Robert J. **Conus medullaris syndrome after epidural steroid injection: Case report**. *The International Journal of Spine Surgery* vol. 6 issue 1 December, 2012. p. 29-33
 University of Cincinnati Department of Neurosurgery, Cincinnati, OH, November 2012
- **Pineal Region Tumors** (grand rounds presentation).
 Cincinnati Children's Medical Center Department of Neurosurgery, Cincinnati, OH, April, 2013
- **Recurrent GBM at our Institution** (digital poster presentation). Congress of Neurological Surgeons Annual Meeting, San Francisco CA, October, 2013
- Grande A, Grewal S, Tackla R, Ringer AJ. **Life-threatening allergic vasculitis after clipping an unruptured aneurysm: Case report, weighing the risk of nickel allergy**. *Surg Neurol Int* 2014;5:S161-4.
- **Assessment of Cerebrovascular Autoregulation Using Regional Cerebral Blood Flow in Surgically Managed Brain Trauma Patients** (grand rounds presentation). University of Cincinnati College of Medicine Department of Neurosurgery, Cincinnati, OH, December, 2014
- Tackla R, Hinzman J, Foreman B, Magner M, Andaluz N, Hartings J. **Assessment of Cerebrovascular Autoregulation Using Regional Cerebral Blood Flow in Surgically Managed Brain Trauma Patients**. *Neurocritical Care*, May, 2015
- **Assessment of Cerebrovascular Autoregulation Using Regional Cerebral Blood Flow in Surgically Managed Brain Trauma Patients** (oral presentation).
 Ohio State Neurosurgical Society Annual Meeting, Columbus, OH, April, 2015
- **Assessment of Cerebrovascular Autoregulation Using Regional Cerebral Blood Flow in Surgically Managed Brain Trauma Patients** (poster presentation).
 Congress of Neurological Surgeons Annual Meeting, New Orleans, LA, September, 2015

- Hinzman J, Gibson J, Tackla R, Costello M, Burmeister J, Quintero J, Gerhardt G, Hartings J. **Real-time monitoring of extracellular adenosine using enzyme-linked microelectrode arrays.** *Biosensors & bioelectronics*. 2015-12;74:512-517.
- Serrone J, Tackla R, Gozal Y, Hanseman D, Gogela S, Vuong, S, Ringer A. **Aneurysm growth and de novo aneurysms during aneurysm surveillance.** *Journal of Neurosurgery*, March (online), 2016
- Ladd B, Tackla R, Gupte A, Darrow D, Sorenson J, Zuccarello M, Grande A. **Feasibility of Telementoring for Microneurosurgical Procedures Using a Microscope: A Proof-of-Concept Study.** *World neurosurgery*, 99:680-6. March 2017
- Carroll C, Tackla R, Vuong S, Jeong W, Serrone J, Ringer A: **Robotic-assisted cerebral angiography and intracranial intervention: initial experience with the Magellan Catheter System.** *Journal of Neurosurgery*, 126:A1431. April, 2017 (Abstract)
- Vuong S, Carroll C, Tackla R, Jeong W, Ringer A. **Application of emerging technologies to improve access to ischemic stroke care.** *Neurosurgical Focus*, 42(5):E8. May, 2017
- Vallin E, Serrone J, Betts A, Tackla R, Abruzzo T, Ringer A, Grossman A. **Intra-Arterial Verapamil can Help Differentiate Reversible from Non-Reversible Vasculopathy.** *Stroke*, Vol. 48, American Heart Association, August, 2017 (Abstract)

Teaching Experience

- Gross Anatomy Prosector and Tutor-University of Cincinnati College of Medicine 2007-present
- University Orientation Instructor-Kent State University 2002-2003
- Supplemental Instruction Leader (Fundamentals of Chemistry)-Kent State University 2002-2003

Community Service

- Med Mentors-University of Cincinnati College of Medicine (2007-2010)
 - Mentorship of underprivileged youth
- Good Works Ministry-The Ohio University (2004-2006)
 - Meal preparation, on a weekly basis, for the indigent population of rural southeastern Ohio

School Service

- Year II Curriculum Committee (2007-2008)
- Curriculum Biennium Committee (2008-present)

Extracurricular Activities

- American Medical Student Association-University of Cincinnati College of Medicine (2007-2010)
 - Director of inter-organization collaboration
- Student Interest Group in Neurology-University of Cincinnati College of Medicine (2007-2010)
 - Director of fundraising
- Alpha Chi Sigma Professional Chemistry Fraternity –Ohio University (2004-2010)

Professional Memberships

- American Medical Association (2006)
- American College of Physicians (2007)
- American College of Surgeons (2007)
- American Academy of Neurology (2007)
- American Association of Neurological Surgeons (2010)
- Congress of Neurological Surgeons (2010)

Interests

- Cerebrovascular Neurosurgery
- Endovascular Neurosurgery
- Minimally Invasive Degenerative Spine Correction