Thomas J. Altstadt, M.D.
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EDUCATION

1991	Valedictorian, Marmion Military Academy, Aurora, IL
1994	B.S. in Biochemistry (Departmental Honors), Indiana University, Bloomington, IN
2001	M.D., Indiana University School of Medicine, Bloomington, IN
2001-2002	Internship (General Surgery), Indiana University School of Medicine, Bloomington, IN
2002-2008	Residency, Indiana University School of Medicine (Neurological Surgery), Bloomington, IN
2008	Fellowship, Indiana University School of Medicine (Complex Spine Surgery), Bloomington, IN

ACADEMIC APPOINTMENTS

2008-2012	Partner Southern Oregon Neurosurgical and Spine Associates, PC. Medford, OR
2013	Associate Residency Director Department of Neurosurgery University of Louisville Louisville, KY
2012-2017	Assistant Professor Department of Neurosurgery University of Louisville Louisville, KY
2017- Present	Associate Professor Department of Neurosurgery University of Louisville Louisville, KY

CERTIFICATION AND LICENSURE

2011	American Board of Neurological Surgeons
2004- Present	State of Indiana
2012- Present	Commonwealth of Kentucky
2008-2014	State of Oregon

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

2009- Present	American Association of Neurological Surgeons
2009- Present	Congress of Neurological Surgeons
2012- Present	Kentucky Neurosurgical Society
2012- Present	University of Louisville Hospital, Louisville, KY
2012- Present	Baptist Hospital East, Louisville, KY
2012- Present	Jewish Hospital, Louisville, KY
2012- Present	Robley Rex VA Medical Center, Louisville, KY

2012- Present Floyd Memorial Hospital, Clarksville, IN

HONORS AND AWARDS

1991	Eagle Scout
1991-1994	Indiana University Honors Division Scholarship, for outstanding academic achievement
1999	Alpha Omega Alpha Honor Medical Society Member
	Dr. E.B. Rinker Medical Scholarship, for outstanding academic achievement
2000	Selected to attend the American College of Surgeons' 86th Clinical Congress
	Medical Student Program, for the most outstanding performance in the junior surgery clerkship
	Dr. E.B. Rinker Medical Scholarship, for outstanding academic achievement
2001	American College of Surgeons Award, for outstanding scholastic achievement in Surgery
	Pittman Surgical Scholarship Award, for academic and clinical excellence in Surgery
2008	Jose Biller Teaching Award, for resident and medical student education

COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

2015-Present	KODA Clinical Advisory Board
2015-Present	Student Promotions Committee
4/16-4/18/15	Faculty, SNS Junior Resident Course, Indiana University
2012-Present	Ethics Committee, School of Medicine, University of Louisville

EDUCATIONAL ACTIVITIES – UNIVERSITY

3/2013 Cadaver Lab Retropharyngeal Approach to the Craniocervical Junction
2/2014 Presentation for 2nd year medical students CNS course
10/2014 Anterior Cervical Spine Dissection Lab
6/2015 Lateral Thoraco-Lumber Spine Dissection Lab
8/2015 Posterior Craniocervical Spine Dissection Lab
1/2016 Laminectomy Dissection Lab

EDUCATIONAL ACTIVITIES –NON- UNIVERSITY

1. Dinner presentation to 8 Louisville Chiropractors, “Motion Preservation in the Cervical Spine” September 21, 2015
2. Dinner presentation to 2 Kentucky Chiropractors, “Motion Preservation in the Cervical Spine” October 28, 2015

EDUCATIONAL ACTIVITIES – RESEARCH

1994	Chemistry Department, Indiana University Undergraduate Research Assistant Synthesized intermediates towards the synthesis of the anti-tumor antibiotic Lankacidin C.	Bloomington, IN
1997	Bristol-Myers Squibb, PRI Assistant Research Scientist I/II. Taxol Analog Group. Designed and synthesized novel analogs of Paclitaxel	Wallingford, CT
1998	Children’s Hospital, Harvard Medical School Department of Urology, Laboratory for Tissue	Boston, MA

Engineering and Cellular Therapeutics,
Anthony Atala MD, Director; Research Assistant
Project on novel matrix for cell delivery and tissue engineering

PATENTS

U.S. Patent Number 5,773,461 June 30, 1998; "7-Deoxy-6-Substituted Paclitaxels"; Wittman MD, Altstadt TJ, Kadow JF, Kingston DGI, Liang X

GRANTS AND CONTRACTS

1. Title: Glyburide Opportunity for Spinal Cord Injury Protection (GOSCIP)
   Role: Primary Investigator

BOOK CHAPTERS

1. "Modern Instrumentation in Craniovertebral Junction Surgery". **Altstadt TJ**, O'Toole J, Eichholz KM, Fessler RG in Craniovertebral Junction Disorders: Current Management Concepts, Goel, A. (Ed) Medknow Publication Ltd. India. 2007
2. "Pediatric CNS Vascular Malformations", **Altstadt TJ**, Shah MV in Vascular Diseases in Children and Young Adults, 2 ed. Biller J. Saunders, 2009
3. "Some Recent Developments in the Synthesis and SAR of Novel Taxanes", Kadow JF, **Altstadt TJ**, et al in Anticancer Agents Frontiers in Cancer Chemotherapy Edited by Iwao Ojima, Gregory D. Vite and Karl-Heinz Altmann. Oxford University Press, 2001

ABSTRACTS

1. "Failure of Stand Alone ALIF for L5/S1 Isthmic Spondylolisthesis"; **Altstadt TJ**, Rodgers RB, Horn EM; CNS, September 20-25, 2008, Orlando FL.

2. "Multilevel Corpectomy and Reconstruction via a Single Posterior Approach"; **Altstadt TJ**, Brennan RP, Rodgers RB, Horn EM; CNS, September 20-25, 2008, Orlando FL.

3. "Interhemispheric Transcallosal Subchoroidal Fornix Sparing Craniotomy for Total Resection of 57 Consecutive Colloid Cysts"; Shapiro SA, **Altstadt TJ**; AANS, April 14-19, 2007, Washington, DC.

4. "Craniotomy for Resection of Cerebral Metastatic Testicular Cancer"; Shapiro SA, Einhorn L, Rodgers RB, Jude J, **Altstadt TJ**; AANS, April 14-19, 2007, Washington, DC.

5. "A Randomized Trial of Instrumented Posterior Lumbar Interbody Fusion Using Machined Cortical Wedges/Local Bone with or without rhBMP2 in the Treatment of Degenerative Lumbar Spondylolisthesis with Stenosis"; Shapiro SA, Rodgers RB, Sloan RB**, Altstadt TJ**, Miller JC; CNS, October 8-13, 2005, Boston, MA.

6. "Phase I Trial of Oscillating Electrical Field Stimulation in Human Complete Spinal Cord Injury"; Shapiro SA, Borgens R, Pascuzzi R, Groff M**, Altstadt TJ**, Nelson P, Rodgers R; CNS, October 16-21, 2004, San Francisco, CA.

7. "Pituitary Hyperplasia and Acromegaly Secondary to a GHRH Secreting Carcinoid"; Bevering CG, III, **Altstadt TJ**, Nelson PB, Azarelli B; NSA, June 4-7, 2000, Durango, CO.

PRESENTATIONS

1. **Altstadt TJ**, “Oral Board Case Review”; AANS Goodman Oral Board Review Course, November 2013, Houston, TX.

2. **Altstadt TJ**, “Multidisciplinary Approach to Spinal Metastasis”; Internal Medicine Grand Rounds, August 2, 2013, Louisville, Ky.

3. **Altstadt TJ**, “Minimally Invasive Spinal Surgery: Current and Future Applications”; Neuroscience Grand Rounds, November 9, 2012, Louisville, KY.

4. **Altstadt TJ**, “Oral Board Case Review”; AANS Goodman Oral Board Review Course, November 2012, Houston, TX.

5. **Altstadt TJ**, “Minimally Invasive Spine Surgery”; Primary Care Conference, June 18, 2010, Brookings Harbor, OR.

6. **Altstadt TJ**, “Back and Leg Pain”; Primary Care Conference, June 18, 2010, Brookings Harbor, OR.

7. **Altstadt TJ**, “Cervical Spondylosis”; Primary Care Conference, June 18, 2010, Brookings Harbor, OR.

8. **Altstadt TJ**, “Cervical Spondylosis”; Providence Spine Conference, May 14, 2010, Medford, OR.

9. **Altstadt TJ**, Horner TG, Leipzig TJ, Payner T, Redelman K, “Treatment, Outcomes, and Complications in 618 Consecutively Treated Middle Cerebral Artery Aneurysms”; AANS/CNS Joint Cerebrovascular Section, February 2, 2005, New Orleans LA.

10. **Altstadt TJ**, "The History of Alpha Omega Alpha"; Alpha Omega Alpha Honor Medical Society Annual Banquet, March 27, 2001, Indianapolis, IN.

11. **Altstadt TJ**, Bevering CG, Nelson PB, Azzarelli B, "An Unusual Case of Acromegaly"; Neurosurgery Conference, September 2000, University of Washington Medical Center, Seattle, WA.

12. **Altstadt TJ**, Wittman MD, Kadow JF, Fairchild C, Long B, Rose WC, “Synthesis and Biological Evaluation of C-6, C-7 Modified Paclitaxel Analogs”; The Sixth Annual Scientific Poster Sessions, November 3, 1995, Princeton, NJ; Poster # 276.

13. **Altstadt TJ**, Wittman MD, Kadow JF, Hansel S, Zoeckler M, Pajor L, Fairchild C, Johnston K, Long B, Rose WC, Lee F, “Synthesis and Biological Activity of Novel Paclitaxel Analogs”, Presented to the Seventh Annual Research Scientist Symposium, May 17, 1996, Wallingford, CT; #1.

PUBLICATIONS

1. Davis SF, **Altstadt T**, Flores R, Kaye A, and Oremus G. Report of Seizure Following Intraoperative Monitoring of Transcranial Motor Evoked Potentials. Ochsner J. 2013 Winter; 13(4):558-60.

2. Lastfogel, J.F., **Altstadt TJ**, R.B. Rodgers and E.M. Horn. Sacral Fractures Following Stand Alone L5-S1 ALIF for Isthmic Spondylolisthesis. *Journal of Neurosurgery Spine* 13(2):288-93, 2010 Aug.

3. Brennan, R.P., **Altstadt TJ**, R.B. Rodgers and E.M. Horn. Multi-level Corpectomies and Reconstruction via a Single Posterolateral Approach. *Journal of Clinical Neuroscience*, 17:1399-1404, 2010.

4. **Altstadt TJ,** Shah MV. Thoracic Myelopathy Secondary to a Spinal Dural Arteriovenous Fistula. *Seminars in Cerebrovascular Diseases and Stroke*, 3(1):61-4, 2003.

5. **Altstadt TJ**, Azzarelli B, Bevering CG, Edmondson J, Nelson PB. Acromegaly Caused by a GHRH-Secreting Carcinoid: Case Report. *Neurosurgery*, 50(6):1356-9; 2002 Jun.

6. **Altstadt TJ**, Fairchild CR, Golik J, Johnston KA, Kadow JF, Lee FY, Long BH, Rose WC, Vyas DM, Wong H, Wu MJ, Wittman MD. Synthesis and Antitumor Activity of Novel C-7 Paclitaxel Ethers: Discovery of BMS-184476. *Journal of Medicinal Chemistry*, 44(26): 4577-83, 2001 Dec 20.

7. Wittman MD**, Altstadt TJ**, Fairchild C, Hansel S, Johnston K, Kadow JF, Long BH, Rose WC, Vyas DM, Wu MJ, Zoeckler ME. Synthesis of Metabolically Blocked Paclitaxel Analogues. *Bioorganic & Medicinal Chemistry Letters*, 11(6): 809-10, 2001 Mar 26.

8. Wittman MD, **Altstadt TJ**, Kadow JF, Vyas DM, Johnson K, Fairchild C, Long B. Stereospecific synthesis of 7-deoxy-6-hydroxy Paclitaxel. *Tetrahedron Letters*, 40(1999), 4943-6.

9. **Altstadt TJ**, Gao Q, Wittman MD, Kadow JF, Vyas DM. Crystallographic Determination of the Stereochemistry of C-6,7 Epoxy Paclitaxel. *Tetrahedron Letters*, 39(1998), 4965-6.