

Curriculum Vitae

Name: Anthony B. Olinger, Ph.D.
Rank: Assistant Professor
Date of Birth: November 10, 1973

Office Address: Department of Anatomy
Kansas City University of Medicine and Biosciences
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Education

Ph.D., Cell Biology and Anatomy, 2001 Department of Cell Biology and Anatomy
Rosalind Franklin University of Medicine
and Science
North Chicago, IL

B.S., Biology, 1995 Valparaiso University, Valparaiso, IN

Experience

Teaching:

Current Faculty Appointment

Kansas City University of Medicine and Biosciences (2010 – present)

Assistant Professor

College of Medicine: Gross Anatomy sequence (Lecture and Laboratory)
Histology (Lecture)

College of Biosciences: Human Anatomy (Lecture)

Previous Faculty Appointments

Western States Chiropractic College (2009)

Associate Professor

Gross Anatomy I: Anatomy of the Back and Extremities
(Lecture and Laboratory)

Gross Anatomy II: Anatomy of the Head and Neck
(Laboratory)

Gross Anatomy III: Anatomy of the Thorax, Abdomen and Pelvis
(Lecture and Laboratory)

Western States Chiropractic College (2005 – 2008)

Assistant Professor

Gross Anatomy I: Anatomy of the Back and Extremities
(Lecture and Laboratory)

Gross Anatomy II: Anatomy of the Head and Neck
(Laboratory)

Gross Anatomy III: Anatomy of the Thorax, Abdomen and Pelvis
(Lecture and Laboratory)

Cleveland Chiropractic College (2001 – 2004)

Assistant Professor

Systemic Anatomy (Lecture and Laboratory), 2002-2004

Anatomy of Thorax/ Abdomen/ Pelvis (Lecture and Laboratory), 2001-
2004

Anatomy of Head and Neck (Lecture and Laboratory), 2001-2004

Non-faculty Teaching Experience

Rosalind Franklin University of Medicine and Science

Teaching Assistant

Clinical Anatomy: (Lecture) Summer 1999-2001

Clinical Anatomy: (Laboratory) Head Teaching Assistant, Summer 1999

Valparaiso University

Teaching Assistant

Genetics: Teaching Assistant 1993, 1994, 1995

Invited Seminars:

2011 Fall CME Scientific Seminar and Update in Clinical Medicine. 2011.
“Clinical Anatomy: Thoracic Outlet Syndrome”

Research Symposium, Kansas City University of Medicine and Biosciences.
2011. “Doing Anatomical Research”

School of Dentistry, Oregon Health & Science University. 2008. “Anatomy of
the Human Spine”

Department of Continuing Education, Western States Chiropractic College. 2008
Northwest Symposium. “Recent research in clinical anatomy”

Department of Continuing Education, Western States Chiropractic College. 2008
“Clinical Anatomy of the Extremities for the Field Practitioner” A two day lecture and laboratory seminar.

Western States Chiropractic College Faculty Symposium. 2008
“Variable origin of the posterior humeral circumflex artery and relationship to the posterior cord of the brachial plexus” A.B. Olinger

Department of Continuing Education, Western States Chiropractic College. 2007
“Clinical Anatomy of the Extremities for the Field Practitioner” A two day lecture and laboratory seminar.

Western States Chiropractic College Faculty Symposium. 2006
“Innovative technique for the review of lecture material”

Western States Chiropractic College Research Forum. 2005
“Quantitative analysis of mechanoreceptors in cervical paired companion pre-vertebral muscles” S.R. Cooper, S. Larsen, M. Pfefer, A.B. Olinger

Department of Biology, Biology Colloquium 1999, Valparaiso University
“Effects of repeated administration of cocaine and lidocaine on GABA_A receptor subunit mRNA expression” A.B. Olinger

Training:

Western States Chiropractic College
HIPPA and FERPA training (2007)
Online/ Distance Education training (2008)

Public Responsibility in Medicine and Research (PRIM&R)
General IRB training (2008)
Administrative IRB training (2008)

Interests

Teaching:

Gross Anatomy (Lecture and Laboratory)
Histology (Lecture and Laboratory)
Neuroscience (Lecture and Laboratory)
Embryology
Developmental Biology
Cell Biology

Scholarship/ Research:

Quantification and description of Anatomical Anomalies and Variations
Preparation of an Anatomical Atlas and Textbook

Service:

American Association of Clinical Anatomists
Career Development Committee
Kansas City University of Medicine and Biosciences
Continuing Medical Education Committee
Curriculum Committee
Vice Chair, Institutional Review Board (2012)
Institutional Review Board (2011)
Western States Chiropractic College
Chair, Institutional Review Board
Faculty Development Committee
Vice President, Faculty Senate
Cleveland Chiropractic College
Research Committee
Faculty Council

Professional Associations:

American Association of Clinical Anatomists
American Association of Anatomists

Publications

Published Papers:

1. Anatomic description of the middle meatus and classification of the hiatus semilunaris into five types based upon morphological characteristics. Kelly Dahlstrom, Anthony Olinger. *Clinical Anatomy*. 2013. July 8.
2. Smaller insertion area and inefficient mechanics of the gluteus medius in females. Dustin Woyski, Anthony Olinger, Barth Wright. *Surgical and Radiologic Anatomy*. 2013. Mar 21.
3. Posterior intercostal artery tortuosity and collateral branch points: a cadaveric study. Eric Schurtleff and Anthony Olinger. *Folia Morphologica*. 2012. Nov. 71(4): 245-251
4. A possible relationship between reliability of thoracic outlet syndrome diagnostic testing and the position of the axillary artery. Anthony Olinger, William Borman, Brion Benninger. *Surgical and Radiologic Anatomy*. 2012 Aug; 34(6):499-507.
5. Descriptive anatomy of the interscalene triangle and the costoclavicular space and their relationship to thoracic outlet syndrome: a study of 60 cadavers. Dahlstrom K, Olinger A. *Journal of Manipulative and Physiologic Therapeutics*. 2012. Jun; 35(5): 396-401.

6. Unique variation of the axillary arch muscle discovered during dissection could explain neurologic symptoms in the living patient. Ashley Telisky, Anthony Olinger. *Clinical Anatomy*. 2011. 24: 961-963.
7. Functional anatomy of human scalene musculature: rotation of the cervical spine. Anthony Olinger, Phillip Homier. *Journal of Manipulative and Physiologic Therapeutics*. 2010. 33(8): 594-602.
8. Unique form of the infrequent extensor carpi radialis accessorius muscle observed bilaterally. Anthony Olinger, Brion Benninger. *Clinical Anatomy*. 2010. 23(8): 891-893.
9. Branching Patterns of the Lateral Thoracic, Subscapular, and Posterior Circumflex Humeral Arteries and Their Relationship to the Posterior Cord of the Brachial Plexus. Anthony Olinger, Brion Benninger. *Clinical Anatomy*. 2010. 23(4):407-412
10. Up-regulation of GABA(B) receptor mRNA and protein in the hippocampus of cocaine- and lidocaine- kindled rats. J. Li, A.B. Olinger, M.S. Dassow and M.S. Abel. *Neuroscience*. 2003; 118(2): 451-462
11. GABA_B receptor gene expression is not altered in cocaine-sensitized rats. J. Li, A.B. Olinger, M.S. Dassow and M.S. Abel. *Journal of Neuroscience Research*. 2002 Apr 15; 68(2): 241-247

Submitted Papers:

1. Prevalence of the subclavius posticus muscle and its relationship with thoracic outlet syndrome. Gabrielle Farkas, Chelsea Sheeler and Anthony Olinger. *Clinical Anatomy*.
2. Incidence of Gluteus Quartus in human Cadavers. Dustin Woyski and Anthony Olinger. *Clinical Anatomy*.
3. Variation of the radial nerve, ulnar nerve and axillary nerve in innervation of the three heads of the triceps brachii muscle. Travis Kauffman, William Borman, Cara Fisher, Anthony Olinger. *Journal of Manipulative and Physiologic Therapeutics*
4. The anterior extralaryngeal branch of the recurrent laryngeal nerve: variability in a cadaveric sample. Kara Hessel, Barth Wright, Anthony Olinger. *International Journal of Anatomical Variation*
5. Characterization of the radial artery for the purposes of catheterization. Erich Wessel and Anthony Olinger. *Surgical and Radiologic Anatomy*

Manuscripts in Preparation:

1. Comparison of the carotid bifurcation angle in relation to plaque buildup: a cadaveric study. Travis Kauffman and Anthony Olinger
1. Comparison of the mechanical properties of unembalmed and embalmed human soft tissue using three different embalming solutions on seven different tissue types. Racquel Skold and Anthony Olinger
2. Searching for the histological basis of the low infraspinatus and piriformis Strain-CounterStrain tenderpoints. Racquel Skold and Anthony Olinger.
3. Examination for safer placement of surgical instruments in thoracentesis and video-assisted thoracic surgery (VATS): a cadaveric study. Jennifer Sharp, Danielle Solomon and Anthony Olinger
4. Shape of the distal articulating surface of the first metatarsal head and its relation to hallux valgus deformity: a cadaveric study. Greg Grenier, Brandon Roe, Mark Pfefer and Anthony Olinger.
6. Innervation of the Extensor Carpi Radialis Brevis muscle by the Median nerve is extremely rare. Gabrielle Farkas, William Borman, Cara Fisher, Anwuli Anyah, Mahaletwork Assefa, Chelsea Sheeler and Anthony Olinger.

Abstracts and Presentations:

1. Comparison of the carotid bifurcation angle in relation to plaque buildup: a cadaveric study. Travis Kauffman and Anthony Olinger. American Association of Clinical Anatomists Annual Meeting, Denver, CO 2013
2. Variation of the radial nerve, ulnar nerve and axillary nerve in innervation of the three heads of the triceps brachii muscle. Travis Kauffman, William Borman, Cara Fisher, Anthony Olinger. American Association of Clinical Anatomists Annual Meeting, Denver, CO 2013
3. Comparison of the mechanical properties of unembalmed and embalmed human soft tissue using three different embalming solutions on seven different tissue types. Racquel Skold and Anthony Olinger. American Association of Clinical Anatomists Annual Meeting, Denver, CO 2013
4. Examination for safer placement of surgical instruments in thoracentesis and video-assisted thoracic surgery (VATS): a cadaveric study. Jennifer Sharp, Danielle Solomon and Anthony Olinger. American Association of Clinical Anatomists Annual Meeting, Denver, CO 2013

5. Shape of the distal articulating surface of the first metatarsal head and its relation to hallux valgus deformity: a cadaveric study. Greg Grenier, Brandon Roe, Mark Pfefer and Anthony Olinger. American Association of Clinical Anatomists Annual Meeting, Denver, CO 2013
6. Characterization of the radial artery for the purposes of catheterization. Erich Wessel and Anthony Olinger. American Association of Clinical Anatomists Annual Meeting, Denver, CO 2013
7. Characterizations of the middle meatus and hiatus semilunaris for the purposes of endoscopic procedures. Kelly Dahlstrom and Anthony Olinger. Annual Meeting American Association of Anatomists at Experimental Biology, San Diego, CA 2012.
8. The anterior extralaryngeal branch of the recurrent laryngeal nerve: variability in a cadaveric sample. Kara Hessel, Barth Wright, Anthony Olinger. Annual Meeting American Association of Anatomists at Experimental Biology, San Diego, CA 2012.
9. Innervation of the extensor carpi radialis brevis muscle by the median nerve is extremely rare. Gabrielle Farkas, William Borman, Cara Fischer, Anwuili Anyah, Mahaletwork Assefa, Anthony Olinger. Annual Meeting American Association of Anatomists at Experimental Biology, San Diego, CA 2012.
10. Characterization of the radial artery for the purposes of catheterization. Erich Wessel and Anthony Olinger. Annual Meeting American Association of Anatomists at Experimental Biology, San Diego, CA 2012.
11. Incidence of gluteus quartus in human cadavers. Dustin Woyski, Barth Wright, Anthony Olinger. Annual Meeting American Association of Anatomists at Experimental Biology, San Diego, CA 2012.
12. Variation of the radial nerve, ulnar nerve and axillary nerve in innervation of the three heads of the triceps brachii muscle. Travis Kauffman, William Borman, Cara Fisher, Anthony Olinger. Annual Meeting American Association of Anatomists at Experimental Biology, San Diego, CA 2012.
13. Posterior intercostal artery tortuosity and collateral branch points: a cadaveric study. E. Shurtleff, and A. Olinger. American Association of Clinical Anatomists Annual Meeting, Columbus, OH 2011. Abstract published in Clinical Anatomy. 2011. 24(8):1038
14. Gluteus Medius Tears: A Multivariate Approach to Sex Related Differences in Gluteus Medius Attachments and Hip Joint Mechanics. D. Woyski, B. Wright, A. Olinger. American Association of Clinical Anatomists Annual Meeting, Columbus, OH 2011. Abstract published in Clinical Anatomy. 2011. 24(8):1041

15. Descriptive Anatomy of the Interscalene Triangle and the Costoclavicular Space and their Relationship to Thoracic Outlet Syndrome. K. Dahlstrom, A. Olinger. American Association of Clinical Anatomists Annual Meeting, Columbus, OH 2011. Abstract published in *Clinical Anatomy*. 2011. 24(8):1020
16. Unique variation of the axillary arch muscle discovered during dissection could explain neurologic symptoms in the living patient. A. Telisky, A. Olinger. American Association of Clinical Anatomists Annual Meeting, Columbus, OH 2011. Abstract published in *Clinical Anatomy*. 2011. 24(8):1039
17. Prevalence of the subclavius posticus muscle and its relationship with thoracic outlet syndrome. G. Farkas, B. Benninger, A. Olinger. American Association of Clinical Anatomists Annual Meeting, Columbus, OH 2011. Abstract published in *Clinical Anatomy*. 2011. 24(8):1023
18. A possible relationship between reliability of thoracic outlet syndrome diagnostic testing and the position of the axillary artery. Part III: The relationship between the axillary artery and the roots of the median nerve. A. Olinger, W. Borman, B. Benninger. American Association of Clinical Anatomists Annual Meeting, Columbus, OH 2011. Abstract published in *Clinical Anatomy*. 2011. 24(8):1032
19. A possible relationship between reliability of thoracic outlet syndrome diagnostic testing and the position of the axillary artery. Part II: The effect of diagnostic testing on intra-arterial pressure. A.B. Olinger. American Association of Clinical Anatomists Annual Meeting, Honolulu, HI 2010. Abstract published in *Clinical Anatomy*. 2010. 23(8):1028
20. Functional anatomy of human scalene musculature: rotation of the cervical spine. A.B. Olinger, P. Homier. American Association of Clinical Anatomists Annual Meeting, Honolulu, HI 2010. Abstract published in *Clinical Anatomy*. 2010. 23(8):1028
21. Morphology and patterns of the internal intercostal muscle and their relationship with rib fractures. R. Tavangari, B. Benninger, P. Homier, A.B. Olinger. American Association of Clinical Anatomists Annual Meeting, Honolulu, HI 2010. Abstract published in *Clinical Anatomy*. 2010. 23(8):1037
22. A possible relationship between reliability of thoracic outlet syndrome diagnostic testing and the position of the axillary artery. Part II: The effect of diagnostic testing on intra-arterial pressure. A.B. Olinger. Association of Chiropractic Colleges – Research Agenda Conference. Las Vegas, NV 2010. Abstract published in *Journal of Chiropractic Education*. 2010. 24(1):107

23. Functional anatomy of human scalene musculature: rotation of the cervical spine. A.B. Olinger, B. Mitchell. Association of Chiropractic Colleges – Research Agenda Conference. Las Vegas, NV 2010. Abstract published in Journal of Chiropractic Education. 2010. 24(1):137
24. Thoracic outlet syndrome and the axillary artery-Part I: The frequency of the arterial anomaly. A.B. Olinger, B. Benninger. American Association of Clinical Anatomists Annual Meeting. Cleveland, OH 2009. Abstract published in Clinical Anatomy. 2010. 23(4):486
25. A possible relationship between reliability of thoracic outlet syndrome diagnostic testing and the position of the axillary artery. Part I: the frequency of the arterial anomaly. A.B. Olinger. Association of Chiropractic Colleges – Research Agenda Conference. Las Vegas, NV 2009. Abstract published in Journal of Chiropractic Education. 2009. 23(1):113
26. Unique course of the infrequent extensor carpi radialis accessorius muscle observed bilaterally. A.B. Olinger, B. Benninger. Association of Chiropractic Colleges – Research Agenda Conference. Las Vegas, NV 2009. Abstract published in Journal of Chiropractic Education. 2009. 23(1):113
27. Correlation between the branching pattern of the subscapular and posterior humeral circumflex artery and their spatial relationship to the posterior cord of the brachial plexus. A.B. Olinger, B. Benninger. American Association of Clinical Anatomists Annual Meeting. Toronto, ON, Canada, 2008. Abstract published in Clinical Anatomy. 2008. 21(8):829
28. Unique course of the infrequent extensor carpi radialis accessorius muscle observed bilaterally. A.B. Olinger, B. Benninger. American Association of Clinical Anatomists Annual Meeting. Toronto, ON, Canada, 2008. Abstract published in Clinical Anatomy. 2008. 21(8):829
29. Variable Origin of the Posterior Humeral Circumflex Artery and Relationship to the Posterior Cord of the Brachial Plexus. A.B. Olinger. Association of Chiropractic Colleges – Research Agenda Conference. Washington, DC 2008. Abstract published in Journal of Chiropractic Education. 2008. 22(1):73
30. Quantitative Analysis of Mechanoreceptors in Cervical Paired Companion Prevertebral Muscles. Stephen R. Cooper D.C., Steven Larson, Ph.D., Mark T. Pfefer M.S., D.C., Anthony Olinger Ph.D. World Federation of Chiropractic 8th Biennial Conference, Sydney, Australia. 2005.
31. The Effect of Y-Axis Rotation and X-Axis Translation on Radiographic Analysis of Femur Head Height and Clinical Implications. S.R. Cooper, M.T. Pfefer, P.E. Kohake, A.B. Olinger. Association of Chiropractic Colleges – Research Agenda

Conference. Las Vegas, NV 2005. Abstract published in Journal of Chiropractic Education. 2005. 19(1):5

32. Changes in GABA_A receptor subunit mRNA during the development of cocaine- and lidocaine-kindled seizures. M.S. Abel, M.S. Dassow, J. Li and A.B. Olinger. Society for Neuroscience. Los Angeles, CA, 2001
33. Longevity of changes in GABA_A receptor subunit mRNA after cocaine- and lidocaine-kindled seizures. A.B. Olinger, M.S. Dassow, J. Li, M.M. Oblinger and M.S. Abel. Society for Neuroscience. Los Angeles, CA, 2001
34. Alteration of GABA_B receptor mRNA expression in discrete rat brain regions after chronic cocaine administration. J. Li, S.M. Drengler, A.B. Olinger and M.S. Abel. Society for Neuroscience. New Orleans, LA, 2000
35. GABA_A receptor subunit mRNA expression and [³⁵S]TBPS binding after behavioral sensitization in rats. A.B. Olinger, S.M. Drengler, J. Li and M.S. Abel. Society for Neuroscience. Miami, FL, 1999

Awards and Honors

Cleveland Chiropractic College
2004 Basic Sciences Teacher of the Year