

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Degenhardt, Brian F.	POSITION TITLE Research Associate Professor		
eRA COMMONS USER NAME BDEGENHARDT			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
St. Bonaventure Univ., St. Bonaventure, NY	B.S.	1984	Biology
Des Moines Univ. Osteo. Med. Center, IA	D.O.	1989	Osteopathic Medicine
Grandview Medical Center, Dayton, OH	Postdoctoral	1989-1990	Intern
Kirkville College of Osteopathic Medicine (KCOM), Kirkville, MO	Postdoctoral	1991-1993	Resident, OMM

A. Positions and Honors.

- 1984 Magna Cum Laude, St. Bonaventure University
- 1990-1991 Private Practice, Osteopathic Manipulative Rehabilitation, Dayton, OH
- 1990-1991 Associate Clinical Professor, Osteopathic Manipulative Medicine (OMM), Ohio University College of Osteopathic Medicine, Dayton, OH
- 1992 AOA/Burroughs Wellcome Resident Leadership Award
- 1993 Honorary Member, Russian Osteopathic Association
- 1995-2003 Kirkville Osteopathic Medical Center/Northeast Regional Medical Center, Kirkville, MO
 - 1995-1996 Board Member, Kirkville Osteopathic Medical Center (KOMC)
 - 1995-1997 Chairperson, Department of OMM
 - 1996 Medical Staff Secretary/Treasurer, KOMC
 - 1993-2003 Residency Co-Director, Neuromusculoskeletal Medicine Residency Program
 - 1997-2003 Residency Co-Director, Family Practice/OMM Residency Program
- 1998-1999 Selected Participant, Geriatric Scholars Program, IL-MO Geriatric Education Center (St. Louis Univ.) and KCOM Area Health Education Center Program Office (Kirkville, MO)
- 2000-2004 Member-at-Large, American Osteopathic Association Bureau of Research
- 2005 Research Conference Program Chair, AOA 110th Annual Convention and Scientific Seminar
- 1993-Present KCOM, A.T. Still University (ATSU), Kirkville, MO
 - 1993-1998 Assistant Professor, Department of OMM
 - 1995-2003 Member, Admissions Clinical Committee (Interviewer)
 - 1997 A.T. Still Staff Award for Excellence in Teaching
 - 1998-2001 Chairperson, Department of OMM
 - 1999-2001 Member, Curriculum Committee (Co-Chair, 1998-2000)
 - 1999-2003 Member, Still-Well Committee
 - 2000-2001 Member, Long-Range Planning Committee (Education/Healthcare and Research/Grants Subcommittees) and Faculty Senate Committee
 - 1998-2004 Associate Professor, Department of OMM
 - 1999-Present Member/Co-Chair, Interdisciplinary Research Committee
 - 2001-Present Assistant Vice President for Osteopathic Research
 - 2001-Present Director, Still Osteopathic Research Center
 - 2004-Present Member, Institutional Review Board
 - 2004-Present Director, A.T. Still Research Institute
 - 2005-Present Research Associate Professor, A.T. Still Research Institute
- 2001-Present Chair, External Board of Scientific Counselors, Osteopathic Research Center, University of North Texas Health Science Center, Fort Worth, TX
- 2003-Present Co-Medical Director, Ridgeway Integrative Medicine, Ridgeway, CO

B. Selected peer-reviewed publications (in chronological order).

- Degenhardt BF**, Kuchera ML. Update on Osteopathic Medical Concepts and the Lymphatic System. Journal of the American Osteopathic Association (JAOA) 96(2):97-100, 1996.
- Lockwood MD, **Degenhardt BF**. Cycle-to-Cycle Variability Attributed to the Primary Respiratory Mechanism. JAOA 98(1):35-43, 1998.
- Peterson DF, **Degenhardt BF**, Smith CM. Correlation between Prior Exercise and Present Health and Fitness Status of Entering Medical Students. JAOA 103(8):361-3, 2003.
- Mills MV, Henley CE, Barnes LL, Carreiro JE, **Degenhardt BF**. The Use of Osteopathic Manipulative Treatment as Adjuvant Therapy in Children with Recurrent Acute Otitis Media. Arch Pediatr Adolesc Med 157(9):861-6, 2003.
- Noll DR, **Degenhardt BF**, Stuart MK, McGovern RJ, Matteson M. Effectiveness of a Sham Protocol and Adverse Effects in a Clinical Trial of Osteopathic Manipulative Treatment in Nursing Home Patients. JAOA 104(3):107-13, 2004.
- Noll DR, **Degenhardt BF**, Stuart MK, Werden S, McGovern RJ, Johnson JC. The Effect of Osteopathic Manipulative Treatment on Immune Reponse to the Influenza Vaccine in Nursing Home Residents: A Pilot Study. Altern Ther Health Med 10(4):74-6, 2004.
- Darmani NA, Izzo AA, **Degenhardt BF**, Valenti M, Scaglione G, Cappasso R, Sorrentini I, Di Marzo V. Involvement of the Cannabimimetic Compound, N-Palmitoyl-Ethanolamine, in Inflammatory and Neuropathic Conditions: Review of the Available Pre-Clinical Data, and First Human Studies. Neuropharmacology 48(8):1154-1163, 2005.
- Degenhardt BF**, Snider KT, Snider EJ, Johnson JC. Interobserver Reliability of Osteopathic Palpatory Diagnostic Tests of the Lumbar Spine: Improvements from Consensus Training. JAOA 105(10):465-73, 2005.
- Degenhardt BF**, Kuchera ML. A Multi-Case Report: Efficacy of Osteopathic Evaluation and Manipulative Treatment in Reducing the Morbidity of Otitis Media in Children. JAOA 106(6):327-34.
- Smith CK, Peterson DF, **Degenhardt BF**, Johnson JC: Depression, anxiety, and perceived hassles among entering medical students. Psychology, Health and Medicine. 12 (1):31-39, January 2007.
- Snider KT, Johnson JC, Snider EJ, **Degenhardt BF**: Increased Incidence and Severity of Somatic Dysfunction in Chronic Low Back Pain. JAOA (in press).

C. Research Support.

ONGOING

Noll (PI)

Osteopathic Heritage Foundation, et al.

Multi-Center Osteopathic Pneumonia Study in the Elderly

Goal: To test the efficacy of OMT plus conventional care in the elderly hospitalized with pneumonia.

03/01/04-04/30/07

Responsibilities: Co-Investigator

Degenhardt (PI)

ATSU Strategic Research Initiative

Advancing Instrumentation Objectifying Palpatory Tests

Goal: To advance instrumentation used to assess the reliability and validity of common palpatory tests.

07/01/05 – 06/30/07

Responsibilities: Principal Investigator

Snider K (PI)

ATSU Strategic Research Initiative

Accuracy of Skin Markers in Determining the Location of the Spinous Processes of L1-L4

Goal: To determine the accuracy of palpation to determine the location of the spinous processes.

07/01/05 – 06/30/07

Responsibilities: Co-Investigator

Singh (PI)

ATSU Strategic Research Initiative

Manual Therapy-Specific Gene Expression Correlating with Nociceptive Pain Relief

Goal: To study mechanisms by which manual therapy alters pain thresholds. This project will assess regulatory effects across the genome in a well-accepted rat model and then use real time RT-PCR technology to focus on specific rat genes whose level of expression correlates best with pain reduction following manual therapy.

07/1/06-06/30/07

Responsibilities: Co-Investigator

COMPLETED

1R21AT00207-01A1 Noll (PI)

NIH, NCCAM

R21 Project: Efficacy of Osteopathic Manipulation in Chronic Obstructive Pulmonary Disease

Goal: To determine if OMT is effective for persons with emphysema as a component of their COPD.

04/01/01-03/31/03

Responsibilities: Co-Investigator

F02-06 Caldwell (PI)

Am. Osteopathic Assoc. (Osteo. Research Fellowship)

Patient-Reported Outcomes of Osteopathic Manipulative Treatment: An Epidemiologic Perspective

Goal: To develop and test a patient self-reporting process to assess outcome measures for manipulative or manual medicine at neuromusculoskeletal medicine specialty clinics.

09/01/02 – 08/31/03

Responsibilities: Faculty Sponsor

F02-08 Newton (PI)

Am. Osteopathic Assoc. (Osteo. Research Fellowship)

Evaluating the Efficacy of a Simple Osteopathic Treatment Approach in Dysmenorrhea

Goal: To test the efficacy of simple paraspinal and sacral inhibition technique to reduce pain in dysmenorrhea.

09/01/02 – 08/31/04

Responsibilities: Faculty Sponsor

Degenhardt (PI)

ATSU Strategic Research Initiative

Developing Instrumentation for Objectifying Interexaminer Reliability

Goal: To develop and pilot instruments that can be used to assess the reliability and validity of common osteopathic palpatory tests.

07/01/02 – 09/30/04

Responsibilities: Principal Investigator

Darmani (PI)

ATSU Strategic Research Initiative

Investigation of Biochemical Markers for the Effect of OMT

Goal: To investigate whether biochemical markers exist that quantify the effect of OMT.

07/01/02 – 06/30/04

Responsibilities: Co-Investigator

Snider K (PI)

ATSU Strategic Research Initiative

The Effect of OMT on Somatic Dysfunction, BMD, and Degenerative Changes in the Lumbar Spine

Goal: To identify a relationship between early degenerative joint disease, bone mineral density, and somatic dysfunction in the lumbar spine; and to evaluate the effect of osteopathic manipulative treatment (OMT).

01/15/04 – 06/30/05

Responsibilities: Co-Investigator

Degenhardt (PI)

ATSU Strategic Research Initiative

Effect of OMT on Heart Rate Variability in Post-MI Patients

Goal: To document the effects of OMT on the autonomic nervous system (heart rate variability) in patients with recent myocardial infarction (MI).

07/01/04 – 06/30/05

Responsibilities: Principal Investigator

F03-08 Halma (PI)

Am. Osteopathic Assoc. (Osteo. Research Fellowship)

Determining the Reliability of the Evaluation of Cranial Strain Patterns

Goal: To design a study using well-designed research protocols that scientifically evaluate osteopathic cranial palpatory reliability.

08/01/03 – 07/31/05

Responsibilities: Faculty Sponsor

Snider K (PI)

ATSU Strategic Research Initiative

The Effect of OMT on Somatic Dysfunction, BMD, and Degenerative Changes in the Lumbar Spine

Goal: To identify a relationship between early degenerative joint disease, bone mineral density, and somatic dysfunction in the lumbar spine; and to evaluate the effect of osteopathic manipulative treatment (OMT).

01/15/04 – 06/30/06

Responsibilities: Co-Investigator

D. Other Relevant Information.

Published Books (in chronological order)

Degenhardt, BF, Smith CM: Low Back Pain Exercises, Integrative Medicine: Ed., Rakel. © 2003.

Degenhardt, BF, Smith CM: Low Back Pain Exercises. In Integrative Medicine, Second Ed, Rakel D, Ed: Saunders, Philadelphia © 2007.

Selected Published Abstracts and Professional Presentations (in chronological order)

- Degenhardt BF**, Theobald RJ Jr. Effect of a Spinal Implant on Feline Detrusor Responses. JAOA 92(9):1283, 1992. (Abstract)
- Kuchera ML, **Degenhardt BF**, Heard J, Blackorby E, McAdoo J. Objective Measurement of Segmental Autonomic Change. JAOA 94(9):754, 1994. (Abstract)
- Thieme RW, **Degenhardt BF**. The Efficacy of Osteopathic Manipulative Therapy in the Treatment of Obstetrical Back Pain. JAOA 98(7):387, 1998. (Abstract)
- Degenhardt BF**, Peterson DF. Changes in Stress for First-Year Osteopathic Medical Students at KCOM. JAOA 99(8):426, 1999. (Abstract)
- Peterson DF, **Degenhardt BF**. Lifestyle Changes during the First Year of Medical School at Kirksville College of Osteopathic Medicine. JAOA 99(8):427, 1999. (Abstract)
- Degenhardt BF**. The Impact of Medical School on Wellness of the Students: Helping the Medical Student Survive and Become a Role Model for Their Patients. National Wellness Conference, 1999.
- Degenhardt BF**, Eland DC, Johnson JC, Peterson DF. Impact of an Holistic Wellness Program on the Severity of Stress Perceived by Osteopathic Medical Students. JAOA 100(8):516, 2000. (Abstract)
- Eland DC, **Degenhardt BF**, Johnson JC, Peterson DF. The Effect of Curricular Model, Problem Based vs Lecture Based, on Trends Toward Anxiety and Depression in First-Year Osteopathic Medical Students. JAOA 100(8):517, 2000. (Abstract)
- Peterson DF, **Degenhardt BF**, Eland DC. Impact of a Wellness Program on Physical Fitness During the First Year of Medical School. JAOA 100(8):517, 2000. (Abstract)
- Degenhardt BF**. Update on Proprioception and Manual Medicine; Impact of Osteopathic Manual Medicine in Patients with Knee Osteoarthritis; and Tools for Scientific Investigation in Manual Medicine Research: Foundation for International Consensus. Federation of International Manipulative Medicine (FIMM), Chicago, IL, July 2001.
- Degenhardt BF**, Gauchat MH. Cephalgia. FIMM, Chicago, IL, July 2001.
- Degenhardt BF**, Andes S. Issues on Research Design in Manual Medicine. FIMM, Chicago, IL, July 2001.
- Degenhardt BF**, Snider KT, Johnson JC, Snider EJ. Retention of Interexaminer Reliability in Palpatory Evaluation of the Lumbar Spine. JAOA 102(8):439, 2002. (Abstract)
- Noll DR, **Degenhardt BF**, Johnson JC, Burt SA. Can a Sham Treatment Blind Subjects with Obstructive Lung Disease to Group Assignment? JAOA 102(8):439, 2002. (Abstract)
- Snider KT, **Degenhardt BF**, Johnson JC, Snider EJ. Somatic Dysfunction and Segmental BMD T-Score Variation in the Lumbar Spine. JAOA 102(8):441, 2002. (Abstract)
- Noll DR, **Degenhardt BF**, Johnson JC, Burt SA. The Immediate Effect of OMT on Pulmonary Function Parameters in Obstructive Pulmonary Disease. JAOA 102(8):442, 2002. (Abstract)
- Degenhardt BF**, Kenney RG, McGovern RJ, Johnson JC. Impact of Osteopathic Manual Medicine in Patients with Knee Osteoarthritis. JAOA 102(8):443, 2002. (Abstract)
- Caldwell CT, **Degenhardt BF**, Johnson JC, Hoberman CJ. Patient-reported Outcomes of Osteopathic Manipulative Treatment, The Development of a Research Tool. JAOA 103(8):378, 2003. (Abstract)
- Degenhardt BF**, Johnson JC, Yang Q, Burt SA, Powell W. Objectifying the Reliability of Palpatory Tests Assessing Positional Asymmetry. JAOA 104(8):343, 2004. (Abstract)
- Degenhardt BF**, Darmani N, Towns L, Rhodes DCJ, Trinh C, Johnson JC. Investigating the Effect of OMT on Circulatory Biochemical Markers. JAOA 104(8):343, 2004. (Abstract)
- Service/Educational/Research Grant Experience/Leadership**
- 2002-Present MA Wilson, **Degenhardt BF**, Academic Administrative Units in Primary Care Grant, (D54HP05442) U.S. DHHS

Certifications/Licensures

- 1990 Board Certification, National Board of Osteopathic Medical Examiners
- 1995 Board Certified in Osteopathic Manipulative Medicine, American Osteopathic Association
- 1998 Certificate of Competency - Cranial Academy Board
- 1998 Certificate of Completion - Convocation for the Second Century, KCOM
- 1998 Certificate of Completion, Research Enrichment Training Program, KCOM
- 2000 Board Certification, American Osteopathic Board of Special Proficiency in Family Practice
- 2001 Certificate of Completion, NIH Human Subject Assurance Training (981664349)
- 1991-Present Missouri State Medical License (R8P11)
- 2003-Present Colorado State Medical License (41887)