



Image (cardiac myocytes) courtesy of Dr. Tim Geisbuhler

**Research is the process of going up alleys to see if they are blind. ~Marston Bates**

## Publications

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Dirks RP [alumnus], **Valovich McLeod TC**. Sport-related mild traumatic brain injury, management and return-to-play decision-making in the primary care setting. *Clinician Reviews*. 2008;18(9):18-23.

**Halma KD, Degenhardt BF, Snider KT, Johnson JC**, Flaim MS [alumnus], Bradshaw D [alumnus]. Intraobserver reliability of cranial strain patterns as evaluated by osteopathic physicians: a pilot study. *J Am Osteopath Assoc*. 2008;108(9):493-502.

Mulero Portela AL, Colon Santaella CL, Cruz Gomez C, **Burch A**. Feasibility of an exercise program for Puerto Rican women who are breast cancer survivors. *Rehabilitation Oncology*. 2008;26(2):20-31.

Noll DR, **Degenhardt BF, Fossum C**, Hensel K. Clinical and research protocol for osteopathic manipulative treatment of elderly patients with pneumonia. *J Am Osteopath Assoc*. 2008;108(9):508-516.

**Singh VK**, Hattangady DS, Giotis ES, Singh AK, **Chamberlain NR, Stuart MK**, Wilkinson BJ. Insertional inactivation of branched-chain alpha-keto acid dehydrogenase in *Staphylococcus aureus* leads to decreased branched-chain membrane fatty acid content and increased susceptibility to certain stresses. *Appl Environ Microbiol*. 2008;74(19):5882-5890.

Smith M, **Fryer G**. A comparison of two muscle energy techniques for increasing flexibility of the hamstring muscle group. *Journal of Bodywork and Movement Therapies*. 2008;12(4):312-317.

Van Meter KE [student], **Stuart MK**. A monoclonal antibody that inhibits translation in Sf21 cell lysates is specific for glyceraldehyde-3-phosphate dehydrogenase. *Arch Insect Biochem Physiol*. 2008;69(3):107-117.

**Did you know?**  
**Outside the United States, physical therapy is known as physiotherapy.**

# Presentations and Abstracts

\* indicates presenter

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**Alexander JL\***, Benton MJ. Comparison of two single-set resistance training programs among elderly pulmonary rehabilitation patients: rapid versus delayed intensity progression. Abstract and poster presented at: Annual Meeting of the American Association of Cardiovascular and Pulmonary Rehabilitation; September 18-21, 2008; Indianapolis, IN.

**Alexander JL\***, Benton MJ. Relationship of BMI to maximal upper and lower body strength in elderly COPD patients. Poster presented at: Southwest Regional Chapter of the American College of Sports Medicine; November 14, 2008; San Diego, CA.

Benton MJ\*, **Alexander JL**. Validation of functional fitness tests as surrogate measures of strength in older, frail adults. Abstract and poster presented at: Annual Meeting of the American Association of Cardiovascular and Pulmonary Rehabilitation; September 18-21, 2008; Indianapolis, IN.

Chettiar R\* [student], Zucker IH. Effect of Simvastatin on NOS and angiotensin receptor expression in the RVLM and PVN. Presented at: 52nd Annual American Osteopathic Association Research Conference; October 26-28, 2008; Las Vegas, NV.

**Degenhardt BF\***, **Johnson JC**, Noll DR, Blais FX, Morley TF, Hensel K, Hortos KA. Adjunctive manual treatment for older adults hospitalized with community-acquired pneumonia. Presented at: 48th Annual ICAAC (Interscience Conference on Antimicrobial Agents and Chemotherapy)/IDSA (Infectious Diseases Society of America) 46th Annual Meeting; October 25-28, 2008; Washington, DC.

**Degenhardt BF**, **Johnson JC**, **Yang Q**. Characteristics of hip bone somatic dysfunction in subjects with and without low back pain. Presented [by **Heard J\***] at: 52nd Annual American Osteopathic Association Research Conference; October 26-28, 2008; Las Vegas, NV.

**Degenhardt BF**, **Johnson JC**, **Yang Q**. Comparing objective characteristics of lumbar and sacral somatic dysfunction between low back pain and control subjects. Presented [by **Fossum C\***] at: 52nd Annual American Osteopathic Association Research Conference; October 26-28, 2008; Las Vegas, NV.

**Diamant R\***, **Bosch P\***. Constraint induced movement therapy for pediatric clients. Presented at: ArizOTA Annual State Conference; September 19, 2008; Phoenix, AZ.

**Fossum C\***, **Sargentini V**, **Singh V**, **Degenhardt BF**. More consistent inflammation in Sprague-Dawley rats using carrageenan versus capsaicin. Presented at: 52nd Annual American Osteopathic Association Research Conference; October 26-28, 2008; Las Vegas, NV.

**Fossum C**, **Snider E**, **Fryer G\***, Gillette N [alumnus], **Degenhardt B**. The introduction of a novel approach to the teaching and assessment of osteopathic manipulative medicine assessment skills. Presented at: 7<sup>th</sup> International Conference for the Advancement of Osteopathic Research (ICAOR); September 5-7, 2008; Bradenton, FL. Abstract published in: Int J Osteopath Med. 2008;11(4):165.

Froud R\*, Rajendran D, **Fossum C**, Collins P, Mullinger B. How do patients feel post-treatment? pilot study at a UK osteopathic teaching clinic of self-reported adverse events. Presented at: 7<sup>th</sup> International Conference for the Advancement of Osteopathic Research (ICAOR); September 5-7, 2008; Bradenton, FL. Abstract published in: Int J Osteopath Med. 2008;11(4):151-152.

## Presentations and Abstracts, continued

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**Fryer G\***, Bird M, **Robbins B**, **Johnson JC**. Investigation of an electromyographic normalization task for the deep thoracic paraspinal muscles. Presented at: 7<sup>th</sup> International Conference for the Advancement of Osteopathic Research (ICAOR); September 5-7, 2008; Bradenton, FL. Abstract published in: *Int J Osteopath Med*. 2008;11(4):163.

**Fryer G\***, Bird M, **Robbins B**, **Johnson JC**. Resting electromyographic activity of deep thoracic transversospinalis muscles identified as abnormal with palpation. Presented at: 5<sup>th</sup> International Symposium on Advances in Osteopathic Research Akademie für Osteopathie; October 10, 2008; Schlangenbad, Germany.

**Fryer G\***, **Morse C**, **Johnson JC**. Spinal and sacroiliac joint assessment and treatment within the American osteopathic profession. Presented at: 7<sup>th</sup> International Conference for the Advancement of Osteopathic Research (ICAOR); September 5-7, 2008; Bradenton, FL. Abstract published in: *Int J Osteopath Med*. 2008;11(4):166-167.

Gulbrandsen E\* [student], Terry J\* [student], **Suzewits J**. Quality and availability of websites for AOA residency programs in comparison to ACGME programs. Presented at: 52nd Annual American Osteopathic Association Research Conference; October 26-28, 2008; Las Vegas, NV.

Nittolo J, **Alexander JL\***, Wagner CL, Flores M, Silver H, Teeter M. Harmonica therapy as an adjunct to pulmonary rehabilitation: clinical, psychological, and functional outcomes among participating chronic lung disease patients. Poster presented at: Southwest Regional Chapter of the American College of Sports Medicine; November 14, 2008; San Diego, CA.

Puga GM\*, Meyer C, **Alexander J**, Mandarino L, Everman S, Katsanos CS. Effects of arginine on postprandial lipidemia in the elderly. Presented at: Arizona Physiological Society; November 7, 2008; Tucson, AZ.

**Rhodes DCJ\***. Interactions between Tamm-Horsfall protein and IgG fragments. Presented poster at: 41<sup>st</sup> Annual American Society of Nephrology; November 4-9, 2008; Philadelphia, PA. Abstract published in: *J Am Soc Nephrol*. 2008;19:661A-662A.

**Singh V\***, Hattangady D, Giotis E, **Chamberlain N**, **Stuart M**, Wilkinson B. Insertional inactivation of branched-chain alpha-keto acid dehydrogenase (BKD) in *Staphylococcus aureus* leads to decreased branched-chain membrane fatty acids content and increased susceptibility to certain stresses. Poster presented at: International Symposium on Staphylococci and Staphylococcal Infections; Sept. 7-10, 2008; Cairns, Australia.

**Valovich McLeod TC\***, **Bay RC**, **Snyder AR**. Adolescent athletes with a self-report history of sport-related concussion demonstrate lower health-related quality of life. Presented at: 3rd International Conference on Concussion in Sport; October 30, 2008; Zurich, Switzerland.

**“We felt the osteopathic profession had a contribution to make to the healing arts and sciences.”**

**Dr. J. S. Denslow**



Courtesy of the Still National Osteopathic Museum, [PH 1443 (a)]

## What can the Research Support Office do for you?

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For more information about the Research Support Office, contact Jane Johnson, Director for Research Support, at 660.626.2397 or [jjohnson@atsu.edu](mailto:jjohnson@atsu.edu).