Poster Abstracts

Basic Biomedical Sciences

Exercise Training Reduces the Occurrence of Cardiac Arrhythmias and Changes the Pattern of Left Ventricular Connexin 43 Expression in Aged Rats
   Amanda J. Jepson, Des Moines University, Des Moines, IA

Effectiveness of Statin and Chemotherapeutic Drug Combination Therapy on an Aggressive Natural Killer Cell Leukemia
   Austin Henslee, Des Moines University, Des Moines, IA

Screening the Yeast Knockout Collection for Boric Acid Resistance
   Michael Boyer, Des Moines University, Des Moines, IA

Regulation of Endothelial Ca+ Influx and Efflux by 17β-Estradiol
   Rachel Firkins, Des Moines University, Des Moines, IA

Identification of Gut Bacteria of the Zebra Finch
   Blake Bashor, St. Norbert College, De Pere, WI and Des Moines University, Des Moines, IA

Endothelial Regulation of Calmodulin Expression in Vascular Smooth Muscle Cells
   Michael Stencel, Des Moines University, Des Moines, IA

Preliminary Examination of the Effects of Estrogen Receptor Activation on Signaling via Ca2+-Calmodulin in Vascular Smooth Muscle Cells
   Sarah Francis, Drake University, Des Moines, IA

Early Passage Neonate and Adult Keratinocytes are Sensitive to Herpes Simplex Virus-1-Dependent Apoptosis
   Prajakta Pradhan, Des Moines University, Des Moines, IA

Does HMGB1 Expression Levels in a Mouse Melanoma Cell Line Affect Tumor Growth or Metastasis?
   Natalia Portnoy, Des Moines University, Des Moines, IA

Virulence of Flavobacterium columnare Mutants in a Zebra Fish Infection Model
   Jake Reisner, St. Norbert College, De Pere, WI and Des Moines University, Des Moines, IA

p53 Family Members: Disjointed Effectors in Herpes Simplex Virus Replication
   Andrew Michalowitz, Des Moines University, Des Moines, IA

Dissecting the Mechanisms of G Protein-Coupled Estrogen Receptor 1 Action on Ca2+ Signaling in The Vascular Endothelium
   Michelle Burgard, Des Moines University, Des Moines, IA

Unique Bioreactor Conditions Generate Novel Surface Coating for Medical Devices
   Aaron Schenone, Des Moines University, Des Moines, IA

Molecular Analysis of CMY2 Plasmid Dissemination from Diverse Isolates of Salmonella
   Holly J. Hulsebus, Des Moines University, Des Moines, IA
Anatomical and Movement Science

Electromyography Signal Processing and Analyzing Tool for Lower Trunk Muscles in Total Hip Arthroplasty Patients
Jennifer Perry, Drake University, Des Moines, IA

Metabolic Dissimilarity in Charcot Ankles Versus Charcot Midfoot
Lisa Grant CPMS II, Des Moines University, Des Moines, IA

Altered Patterns of Pelvic Motion Associated with Individuals with Plantar Heel Pain
James Whelan, D.P.M. 14, Des Moines University, Des Moines, IA

Reliability of Inter-Limb Force differences During Bilateral Leg Press Strength Testing
Kady L. Stachowiak, Des Moines University, Des Moines, IA

Change in Range of Motion, Strength and Activity Profiles in Hip OA Patients Following THA
Mary Ireland, SDPT, Des Moines University, Des Moines, IA

Effectiveness of Treatments for Plantar Fasciitis: A Proposal for a Prospective, Randomized Trial
Travis Tidwell D.P.M.’14, Des Moines University, Des Moines, IA

Application of a Treatment-Based Classification System and Clinical Guidelines for a Patient with Low Back Pain Who Fit Into Two Subgroups
Lindsey McNea SPT, Des Moines University, Des Moines, IA

Investigation of Stair Negotiation in a Healthy Population
Elizabeth A. Bodnia, OMS II, Des Moines University, Des Moines, IA

Uni- and Bi-lateral Differences in Foot Function during Gait
Alandra Greenlee, Des Moines University, Des Moines, IA

The Human Brain and Body Size Axis: Developmental Trajectory, Variation and Evolution
Muhammad A. Spocter, Des Moines University, Des Moines, IA

Impact of Electrical Stimulation Training on Gait and Function in Six Children with Disability
Katie Wilkening, Iowa State University, Ames, IA

Subjective, Objective, and Clinical Functional Measures Following Total Hip Arthroplasty
Joelle Knipp, SDPT, Des Moines University, Des Moines, IA

Acute Care Outcomes Status Post Total Knee Arthroplasty with Continuous Femoral Nerve Block: Case Report
Julie Ronnebaum, Des Moines University, Des Moines, IA
Poster Abstracts

Evidence-Based Medicine and Education

The Relationship Between Undergraduate GPAs and the MCAT to the Academic Performance the First Two Years in Podiatric Medical School at Des Moines University
   R. Tim Yoho, D.P.M., MS, FACFAS, Des Moines University, Des Moines, IA

A Descriptive Study of Intern Interruptions
   Amanda Grippen, BS, Des Moines University, Des Moines, IA

US Guild Certified Feldenkrais Teachers®: Who Are We and How Do We Practice?
   Patricia A. Buchanan, Des Moines University, Des Moines, IA

Practice Patterns of US Guild Certified Feldenkrais Teachers®: Physical Therapists Compared to Other Groups
   Nicole L. Nelsen, Des Moines University, Des Moines, IA

Juvenile Pilocytic Astrocytomas: A Preliminary Surveillance, Epidemiology, and End Results Database Study
   Pooja N. Patel, OMS II, Des Moines University, Des Moines, IA

Relationship Between the Timed Up and Go and the Functional Ambulation Profile
   Andrea Schletzbaum, Iowa State University, Ames, IA

The New Sunscreen: A Blue Zone Melanoma Study
   Brian A. Ferguson, Des Moines University, Des Moines, IA

The Role of Lysyl Oxidase in Breast Cancer
   Christina Moynihan D.O.’15, Des Moines University, Des Moines, IA

First Metatarsophalangeal Joint Arthrodesis Versus Implant Arthroplasty: Which Provides Higher Patient Satisfaction and Functional Outcomes?
   R. Tim Yoho, D.P.M., MS, FACFAS, Des Moines University, Des Moines, IA

Progressive β-Cell Failure in Type 2 Diabetes Mellitus: Microvascular Pancreatic Isletopathy?
   E. Finnerty, Des Moines University, Des Moines, IA

HPV Awareness, HPV Vaccine Uptake, and the Potential Impact of Physicians: A Cross-Sectional Community Based Survey
   Kyle Kjome OMS II, Des Moines University, Des Moines, IA

Insects for Dietary Iron
   Matthew Abendroth, OMS II, Des Moines University, Des Moines, IA

Clinical Diagnosis of Vitamin, Essential Fatty Acid and Zinc Deficiencies at the Bedside
   James J. Drinane, D.O.’14, Des Moines University, Des Moines, IA