



Dean's Quarterly Updates

Student Learning and Success

January - March 2017

Undergraduate Student Learning and Success

- Arash Zakeresfahani*, a student working in **Niki Munk's** lab, presented 'Deficits in Massage Therapy Related Adverse Events Case Reporting and Implications for the Therapeutic Massage and Bodywork Field: A Systemic Audit through Mid-2016' at the IUPUI 2017 Student Research Day.

Graduate and Graduate Professional Education

- The **Dietetic Internship Class of 2017** participated in the Indiana Academy of Nutrition & Dietetics Legislation Day at the State House on March 22nd. Over 100 registered dietitians and 70 students drawn from all over the State of Indiana treated their state legislators to lunch at the State Capitol. The keynote speaker for the event was Roberta L. Duyff MS, RD, author of The Academy of Nutrition and Dietetics Complete Food and Nutrition Guide, 5th Ed. The Department of Nutrition & Dietetics, in conjunction with the Indiana American Dairy Association, hosted a reception for Ms Duyff; and the dietetic interns had the opportunity to meet with her and discuss career development and the road to authorship.
- Doctoral student, Sarah Shue* successfully defended her dissertation proposal. She is supported by the Block Grant and works in **Niki Munk's** Therapeutic Massage and Bodywork Outcomes Lab.

Advances in Health and Life Sciences

Research and Creative Activity

Abstracts

- **Comer A.** "Front Line Clinicians Divided on Necessity of Consent for tPA Administration During Acute Stroke" VA Health Services Research & Development National Conference.

Grants

- **Terry Loghmani** received a Release Time for Research Grant for her work "The effects of soft tissue manipulation on mesenchymal stem cell mobilization and homing, inflammation, pain, and behavior in rodents with chemically-induced low back pain," \$10,000.
- **Crystal Massie** and **Peter Altenburger** received funding from the Indiana State Department of Health for "Improving functional ability in chronic TBI with intensive rehabilitation robotic gait training," \$150,000.
- **William Thompson** received a grant from Marian University College of Osteopathic Medicine Faculty Development Grant (PIs: Julia Hum, **William Thompson**). "Role of the Auxiliary α 21 Voltage Sensitive Calcium Channel in Skeletal Development and Mechanoregulation" (02/01/2017-05/14/2017): A pilot project to determine the skeletal phenotype *Cacna2d1* global knockout mice, \$4,044.
- **William Thompson** received a grant from Marian University College of Osteopathic Medicine Faculty Development Grant (PIs: Julia Hum, William Thompson). "Association of Perlecan with Voltage Sensitive Calcium Channels in Osteocytes" (02/01/2017-05/14/2017): A pilot project to determine the role of the ECM molecule perlecan on VSCC-mediated mechanosensation, \$3,064.

Poster Sessions

- **Allen M**, Champoux H*, Christenson C*, Kubisch L*, Lefeld S*, **Fisher TF**. Pediatric Medical Residents' Knowledge of Occupational Therapy: A survey. AOTA Conference. March 30, 2017.
- **Allen M**, Voytek M, Perceptions of Compressed Occupational Therapy Courses Among Students and Faculty: A Pilot Study. AOTA Conference. April 1, 2017.
- Avila L*, Hardy L*, Mohr M, Hartley J*, Bair M, Froman A, Kline M, Enochs H*, Wright G, Chaple J, Stanifer T, Hartsock H*, Schlatter T*, Kirschling D, **Miller K**. Home-Based Exercise and Walking Activity in Veterans with Chronic Pain while Participating in Weekly Group Exercise Class, Research section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- Fletcher J*, Gorkis C*, **Warden S**. Full-Text Publication Rate of Abstracts Presented at the Combined Sections Meeting 2005-2011, Research section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.



Dean's Quarterly Updates

Advances in Health and Life Sciences

Research and Creative Activity (cont.)

Poster Sessions (cont.)

- Fletcher J*, Studebaker S*, **Warden S, Bayliss A**. Inter-Examiner Reliability of the Myometer to Measure Achilles Tendon Biomechanical Properties and Correlation with a Functional Calf Length Test, Orthopedics Foot/Ankle section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- **Janson JR**. Getting Started with 3D Printing in OT Education. AOTA Conference. March 31, 2017.
- Johnson R*, Bryja K*, **Bayliss A**. Factors Influencing Length of Stay for Patients Admitted to an ICU with Respiratory Failure, Cardiovascular and Pulmonary Section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- Kemp E, **Crabtree JL**: Matching Student Abilities to Level II Fieldwork Sites. AOTA Conference. March 30, 2017.
- Larson C*, Prange P*, **Loghmani T, Altenburger P**. The Community as a Classroom: Curricular Assessment of Students' Civic-Mindedness as a Function of Volunteerism, Education section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- **Loghmani T**, Neff B, Anwar S, Bane S, Chien S, Longgoo A, Quigley C, Tobin C. A Novel Soft Tissue Manipulation Motion and Force Quantification System for Research and Clinical Use, Orthopedics section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- **Miller K**, Schiel, C, Maier, A, Eller A, Stevenson C, D'Amico D. Supervised Exercise for Hospitalized Patients with Abdominal Organ Transplant: Impact on Physical Performance and Fatigue, Acute care section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- Nicolai N* O'Kane JR*, Mason A*, Burris R*, Hanna C*, Rowlett C*, Schmid AA*, Thompson S*, **Miller K**. Community-Based Adapted Yoga for Adults with Chronic Acquired Brain Injury: A Phase 2 Implementation Pilot Study, Research section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- **Pape S**, Champoux H*, Lange H*, Davis A*, Neukam E*, Ruff E*: Innovative IPE Collaborations within a Student-Run Free Clinic To Enhance Role Understanding and Collaborative Practice Competency. AOTA Conference. March 31, 2017.
- **Scott P**, McKinney K, Perron J, Ruff E*, & Smiley J. Role Checklist Version 3: Feasibility and Utility. AOTA Conference. March 31, 2017.
- **Thompson WR**, Li Y, Uzer G, Rubin J. Mesenchymal Stem Cell Fate is Influenced by Recruitment of mTORC2 to the Cell Membrane by Myosin Motors, Orthopedics section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.
- Wiseman A*, Owens M*, Neves E*, Long G*, Kline J*, **Brown MB**. Training Outcomes Following a High Intensity Interval Protocol are Not Better Than a Continuous Exercise Protocol in a Rat Model of Chronic Thromboembolic Pulmonary Hypertension, Cardiovascular and Pulmonary Section. American Physical Therapy Association Combined Sections Meeting, San Antonio, TX, February 2017.

Presentations

- **Martina Allen**, Ware T. Novel Approach to Inter-professional Education. Presented at E.C. Moore Symposium on Excellence in Teaching. IUPUI. March 3, 2017.
- **Mary Beth Brown** presented her research at the Indiana Physiological Society, Butler University: Six Weeks of Treadmill Training with a High Intensity Interval or Mild Continuous Exercise Approach Increases Cardiac Output in a Sugen-Hypoxia Rat Model of Pulmonary Arterial Hypertension, authors: Gary Long*, Andrea Frump, Amanda Fisher, Tim Lahm, **Mary Beth Brown**; platform presentation by Gary Long* (mentored PhD student) won 2nd place. February 2017.
- **Mary Beth Brown** gave an invited presentation at University of Heidelberg, Translational Lung Research Center, Heidelberg, Germany: Optimizing Exercise Prescription for Pulmonary Hypertension: Insight from Acute and Chronic Exercise Studies in Rodent Models and in Patients. March 2017.
- **Ashley Burelison**, Dafoe E, Davis J. Trust Yourself, Not the Process: An Introvert's Guide to Success in the First Job Search. March 13, 2017.



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Advances in Health and Life Sciences

Research and Creative Activity (cont.)

Presentations (cont.)

- **Amber Comer** presented Death for Dying: A Panel of Experts. Neurology and Neurosurgery Grand Rounds. January 2017.
- **Amber Comer** presented Legal and Ethical Issues with Indiana's Healthcare Consent Law. Indiana University School of Medicine. Dr. Margarete Gaffney's Ethics Course. February 2017.
- **Elaine Fess** presented Clinical Examination: Establishing a Baseline. Panel. Surgery and Rehabilitation of the Hand – Seize the Evidence! Conference. March 11, 2017.
- **Elaine Fess** presented Concurrent Session 2: Hand Assessment: Where is the Evidence? Instructor of Workshop. Surgery and Rehabilitation of the Hand – Seize the Evidence! Conference. March 11, 2017.
- **Thomas Fisher** presented on "Health Profession's Contribution to Society Health." Jacksonville, FL. February 20, 2017.
- **Robyn Fuchs** and her research group gave a platform presentation on bone and muscle health in children with cerebral palsy at the Combined Sections Meeting, APTA, San Antonio, TX, February 2017. DPT students Courtney Goldsberry* and Piper Prange* gave the presentation.
- **Robin Janson** gave a presentation at the 3D Printing and Applications in Healthcare Inter-Professional Education and Practice Conference: Learning Today What I Can Put into Practice Tomorrow. Invited speaker for IU Alumni Association School of Health and Rehabilitation Sciences, Indianapolis, IN. January 21, 2017.
- **Robin Janson** presented Introduction to Hand & Upper Extremity Rehabilitation lectures. Invited Speaker for Dr. Allen's T552 course - Occupations of Adolescents and Young Adults.
- **Robin Janson**, A Whiteman*, S Gambrall*, A Gray*, J Pulliam*, K Harshberger*, L Sokolowski*). HANDS ON! @ SRT National Prosthetic Center Indiana Occupational Therapy Association Central District Meeting. Indianapolis, IN. Invited presentation. February 23, 2017.
- Deborah Lieberman, Marian Arbesman, Sue Berger, Wen-Pin Chang, Megan Chang, Sharon Elliott, Anne Escher, Elizabeth Hunter, Pamalyn Kearney, Natalie Leland, **Chiung-ju (CJ) Liu**, Whitney Lucas Molitor, Stacy Smallfield: Systematic Review on Occupational Therapy and Productive Aging AOTA Conference. March 30, 2017.
- **William Thompson** gave an invited presentation at the ASBMR-Advances in Mineral Metabolism Meeting in Snow Mass, CO. "Mechanical Regulation of MSC Differentiation through mTORC2/Cytoskeletal Signaling."

Publications

- **Arnold BL**, Schiller B. Evidence Based Practice in Sport and Exercise: A Guide to Using Research. Philadelphia: F.A. Davis Company; 2017.
- Arnold S, **Janson R**. Wrist extension or flexion mobilization orthosis: the dinosaur design. J Hand Ther 2017;30:109-12.
- **Brown MB**, Neves E, Long G*, Graber J*, Gladish B*, Wiseman A*, Owens M*, Fisher AJ, Presson RG, Petrache I, Kline J, Lahm T. High-intensity interval training, but not continuous training, reverses right ventricular hypertrophy and dysfunction in a rat model of pulmonary hypertension. Am J Physiol Regul Integr Comp Physiol 2017;312:R197-R210.
- **Crabtree JL**. The importance of public transportation to community mobility and participation. OT Practice 2017;22(3):CE-1–CE-8.
- **Crabtree JL**, Katz LW. Emerging areas of practice. In: Jacobs K, MacRae N, Sladyk K, editors. Occupational Therapy Essentials for Clinical Competence. 3rd ed. Thorofare, NJ: Slack, Inc.; 2017. p. 557-68.
- **Fisher T**. Role of occupational therapy in preventing work-related musculoskeletal disorders with recycling workers: a pilot study. Am J Occup Ther 2017;71:7101190030p1-p6.
- **Fisher TF**, Beals C. Roles of occupational therapy practitioners. In: Jacobs K, MacRae N, Sladyk K, editors. Occupational Therapy Essentials for Clinical Competence. 3rd ed. Thorofare, NJ: Slack, Inc.; 2017. p. 763-77.
- **Fuchs RK**, **Bayliss AJ**, **Warden SJ**. Hemangioma in the anterior thigh with corresponding periosteal bone reaction. J Orthop Sports Phys Ther 2017;47:218.
- **Fuchs RK**, Kersh ME, Carballido-Gamio J, **Thompson WR**, Keyak JH, **Warden SJ**. Physical activity for strengthening fracture prone regions of the proximal femur. Curr Osteoporos Rep 2017;15:43-52.



Dean's Quarterly Updates

Advances in Health and Life Sciences

Research and Creative Activity (cont.)

Publications (cont.)

- Hendrie HC, Zheng M, **Li W**, Lane K, Ambuehl R, Purnell C, Unverzagt FW, Torke A, Balasubramanyam A, Callahan CM, Gao S. Glucose level decline precedes dementia in elderly African Americans with diabetes. *Alzheimers Dement* 2017;13:111-8.
- **Li W**, Huang E, Gao S. Type 1 diabetes mellitus and cognitive impairments: a systematic review. *J Alzheimers Dis* 2017;57:29-36.
- **Li W**, Risacher SL, McAllister TW, Saykin AJ, Alzheimer's Disease Neuroimaging I. Age at injury is associated with the long-term cognitive outcome of traumatic brain injuries. *Alzheimers Dement (Amst)* 2017;6:196-200.
- **Loghmani MT**, Neff B*, Alotaibi AM, Chien S, March K. Quantifiable soft tissue manipulation (QSTM): a requisite to advance the field of manual therapy. *J Novel Physiother* 2017;7:326 (3 pages).
- **Massie CL**, White C*, Pruit K*, Freel A*, Staley K*, Backes M*. Influence of motor cortex stimulation during motor training on neuroplasticity as a potential therapeutic intervention. *J Mot Behav* 2017;49:111-6.
- **Miller KK, Porter RE**, DeBaun-Sprague E, Van Puymbroeck M, Schmid AA. Exercise after stroke: patient adherence and beliefs after discharge from rehabilitation. *Top Stroke Rehabil* 2017;24:142-8.
- **Warden SJ**. Sports injuries: acute. In: Brukner P, Clarsen B, Cook J, Cools A, Crossley K, Hutchinson M, McCrory P, Bahr R, Khan K, editors. *Brukner and Khan's Clinical Sports Medicine: Injuries: Vol. 1. 5th ed.*: McGraw-Hill; 2017. p. 13-27.
- **Warden SJ**. Sports injuries: chronic. In: Brukner P, Clarsen B, Cook J, Cools A, Crossley K, Hutchinson M, McCrory P, Bahr R, Khan K, editors. *Brukner and Khan's Clinical Sports Medicine: Injuries: Vol. 1. 5th ed.*: McGraw-Hill; 2017. p. 29-53.
- **Warden SJ, Fuchs RK**. Do selective serotonin reuptake inhibitors (SSRIs) cause fractures? *Curr Osteoporos Rep* 2016;14:211-8.

Video/Audio Podcasts, Blogs, and Other Contributions

- **Niki Munk** provided an online interview with Ruth Werner as a 2017 Educational Congress Presenter at the upcoming Alliance for Massage Therapy Education Conference, available at: https://www.youtube.com/watch?v=gs6_TMhs4os&t=136s.

Contributions to the Well-being of the Citizens of Indianapolis, Indiana, and Beyond

Community Engagement

- The **IU Student Physical Therapy Organization** hosted their first annual gala on February 4, 2017 at the Ritz Charles in Carmel. There were 100 attendees, including students, alumni, faculty, and staff and over \$2,400 profit will support a student professional development fund. This award will provide students an opportunity to attend physical therapy conferences and/or research seminars. The gala was led by **William Thompson** and organized by current DPT students Deanna Proimos*, Dana Maslar*, and Stephanie Tellus.*
- **Tracy Dierks** and **April Priest** led second year DPT students in the implementation of multi-week health and wellness interventions at several Indianapolis community sites, which include the Hawthorne Community Center at The Retreat, the John H. Boner Community Center, the Hawthorne Community Center Preschool Program, and the George Washington Carver Montessori Elementary School.
- **Robin Janson**, Ashleigh Whiteman*, Austin Gray*, Jared Pulliam*, Kendall Harshberger*, Laura Sokolowski* volunteered at the Indiana Occupational Therapy Association Central District Meeting at SRT Prosthetics on February 23, 2017.
- **Gaylen Kelton** and **Wei Li** participated in the Carmel High School Project-Based Learning Community Outreach Event as a Panel member on February 21, 2017.
- **Brenda Lawless** served as a judge for the IUPUI Top 100.
- **Wei Li** volunteered at the Carmel Swim Club Winter Invitational, IUPUI Natatorium, Indianapolis, IN in January 2017.
- **Terry Loghmani** continues to collaborate with other IU schools, students and faculty volunteers to provide services at the IU Student Outreach Clinic (SOC) as IU SOC PT faculty advisor.

Inclusive Campus Climate

- **Niki Munk** moderated the SHRS 2017 Diversity Event: Unpacking the Unconscious: An Introduction to Implicit Bias.



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Contributions to the Well-being of the Citizens of Indianapolis, Indiana, and Beyond

Faculty and Staff

- **Niki Munk** was awarded the competitive three year Massage and Myotherapy Australia MT Fellowship with the UTS:ARCCIM International Complementary Medicine Research Leadership and Capacity Building Program.
- **Niki Munk** attended various professional development sessions offered by the IUPUI Academic Affairs and IU SHRS Mentoring Initiative including Halfway to Tenure, Dossier Preparation Workshop, and Setting Trajectories for Professional Development.
- **Wei Li** attended the 2017 E.C. Moore Symposium on Excellence in Teaching held at the IUPUI Campus Center.

Professional Engagement

- **Keith Avin** was elected Committee Chair for the Academy of Geriatric Physical Therapy Practice for the American Physical Therapy Association.
- **Mary Beth Brown** was invited and accepted to serve as NIH reviewer- Special Emphasis Panel/Scientific Review Group ZRG1 CVRS-L (80) AREA meeting, scheduled March 1, 2017.
- **Tracy Dierks** was an invited grant reviewer for the Indiana Spinal Cord and Traumatic Brain Injury Research Fund Grant Program, February 2017.
- **Niki Munk** served on the Massage Therapy Foundation's Research Grant Review Board.
- **William Thompson** received the John Haddad Young Investigator Award from the Advances in Mineral Metabolism - American Society of Bone and Mineral Research, Snowmass, CO, 2017.