



# Research Notes

June 2017

## Research dates to remember/consider

- Sep 12 IUPUI Enhanced Mentoring Program with Opportunities for Ways to Excel in Research (EMPOWER)
- Sep 15 IUPUI Release Time for Research (RTR)
- Sep 27 Department of Defense Peer Reviewed Orthopaedic Research Program [Applied Research Award] (Letter of intent due **July 12**)
- Oct 5 NIH R01 new submission due date (internal routing date: Sep 28)
- Oct 7 CTSI Pilot Funding for Research Use of Core Facilities
- Oct 15 IUPUI Research Support Funds Grant (RFSG) due date
- Oct 16 NIH R03 and R21 new submission due date (internal routing date: Oct 9)
- Oct 18 Department of Defense Peer Reviewed Medical Research Program [Investigator-Initiated Research Award] (Letter of intent due **July 13**)
- Oct 25 NIH R15 new submission due date (internal routing date: Oct 18)

## External grants and contracts

### Awards

Project Director	Sponsor	Title	Start	End	Proposal Total Amt
Warden, Stuart	NIH/NIAMS	Localizing the skeletal effects of serotonin transporter inhibition [R15 mechanism]	7/1/2017	6/30/2020	\$471,000
Warden, Stuart	NBA/GE	Activities and factors influencing the magnitude and distribution of tibial bone strains in basketballers	9/1/2017	8/31/2020	\$299,922
Avin, Keith	NIH/NIDDK	Mechanisms of interventions to ameliorate sarcopenia in chronic kidney disease [K08 non-competing renewal]	6/1/2017	5/31/2017	\$130,627
Kelton, Gaylen	SANOFI PASTEUR, INC	Expanded access IND Program (EAP) to provide stamaryl vaccine to persons in the United States for vaccination against yellow fever	5/22/2017	5/22/2019	\$11,168

### Submissions

Project Director	Sponsor	Title	Start	End	Proposal Total Amt
Munk, Niki	NIH	Preparing pragmatic massage therapy trials for medically underserved chronic low back pain populations [R34 mechanism]	4/1/2018	3/31/2021	\$697,923
Comer, Amber	NIH	The quest to diminish suffering: developing an intervention to improve communication and medical decision making for older adults with severe stroke [K01 mechanism]	4/1/2018	3/31/2023	\$648,634
Kelton, Gaylen	SANOFI PASTEUR, INC	Expanded access IND Program (EAP) to provide stamaryl vaccine to persons in the United States for vaccination against yellow fever	5/22/2017	5/22/2019	\$11,168



**Submissions with credit split to SHRS faculty**

SHRS faculty (Role)	Sponsor	Title	Start	End	Proposal Credit Amt
Thompson, William (co-PI; 48% credit)	NIH	Effect of low magnitude mechanical signals on bone and muscle loss due to androgen deprivation therapy for prostate cancer [R01 mechanism]	4/1/2018	3/31/2023	\$1,841,692
Loghmani, M. Terry (co-I; 10% credit)	NSF	Data enabled smart biomechatronic device and instrumentation system traineeship [National Science Foundation Research Traineeship]	9/1/2017	8/31/2022	\$374,830

**Internal grants and contracts**

**Awards**

Project Director	Sponsor	Title	Start	End	Proposal Total Amt
Thompson, William	IUPUI Office of the V.C. for Research	Matrix regulation of osteocytes via auxiliary calcium channel subunits [Research Support Funds Grant]	7/1/2017	6/30/2018	\$35,000
Fuchs, Robyn	IU SHRS	Long term benefit to the proximal femur of exercise completed when young [PEAR grant]	6/1/2017	6/30/2017	\$10,317

**Submissions**

Project Director	Sponsor	Title	Start	End	Proposal Total Amt
Thompson, William	Indiana CTSI	Real-time in vivo assessment of osteocyte calcium signaling initiated by matrix tethers [Collaboration in Translational Research application]	9/1/2017	8/31/2019	\$75,000
Thompson, William	Indiana Center Musculoskeletal Health	Use of low magnitude mechanical signals to restrict bone and muscle loss due to androgen deprivation therapy for prostate cancer [Pilot Funding - Multi-investigator Grant]	7/1/2017	6/30/2018	\$50,000
Thompson, William	IUPUI Office of the V.C. for Research	Matrix regulation of osteocytes via auxiliary calcium channel subunits [RSFG application]	7/1/2017	6/30/2018	\$35,000
Munk, Niki	Indiana CTSI	Preliminary efforts to decrease LGBTQ adolescents' mental health inequities with massage [Community Health Partnership (CHeP) Trailblazer Award]	10/1/2017	9/30/2018	\$25,000
Fuchs, Robyn	IU SHRS	Long term benefit to the proximal femur of exercise completed when young [PEAR grant]	6/1/2017	6/30/2017	\$10,317

**Publications reaching final publication stage**

1. **Altenburger P**, Wilson AM. A volunteer basketball clinic for children with disabilities: professional development impact on student-athletes and physical therapy students. *Journal of Allied Health* 2017;46:65-71
2. Kennedy AB, **Munk N**. Experienced practitioners beliefs utilized to create a conceptual model of a successful massage therapist: a qualitative investigation. *International Journal of Therapeutic Massage and Bodywork* 2017;10:9-19
3. Kindler J, Pollock NK, Laing EM, Oshri A, Jenkins N, Isales CM, Hamrick MW, Ding HK, Hausman DB, McCabe GP, Martin BR, Hill Gallant KG, **Warden SJ**, Weaver CM, Peacock M, Lewis RD. Insulin resistance and the IGF-I-cortical bone relationship in children ages 9-13 years. *Journal of Bone and Mineral Research* 2017;32:1537-45



## Publications reaching final publication stage (cont'd)

4. Olivos DJ, Alvarez M, Cheng YH, Hooker RA, Ciovacco WA, Bethel M, McGough H, Yim C, Chitteli BR, Eleniste PP, Horowitz MC, Srour EF, Bruzzaniti A, **Fuchs RK**, Kacena MA. Lnk deficiency leads to TPO-mediated osteoclastogenesis and increased bone mass phenotype. *Journal of Cellular Biochemistry* 2017;118:2231-40
5. Shue S, Kania-Richmond A, Mulvihill T, **Munk N**. Treating individuals with amputations in therapeutic massage and bodywork practice: a qualitative study. *Complementary Therapies in Medicine* 2017;32:98-104
6. **Warden SJ**, **Thompson WR**. Become one with the force: optimizing mechanotherapy through an understanding of mechanobiology. *British Journal of Sports Medicine* 2017;51:989-990
7. **Warden SJ**, Weatherholt AM, Gudeman AS, Mitchell DC, **Thompson WR**, **Fuchs RK**. Progressive skeletal benefits of physical activity when young as assessed at the midshaft humerus in male baseball players. *Osteoporosis International* 2017;28:2155-65

## New 'in press' publications this month

1. Shao Y, Hernandez-Buquer S, Childress P, Stayrook KR, Alvarez MB, Davis H, Plotkin L, He Y, Condon KW, Burr DB, **Warden SJ**, Robling AG, Yang FC, Wek RC, Allen MR, Bidwell JP. Improving combination osteoporosis therapy in a preclinical model. *Endocrinology*
2. **Warden SJ**, **Fuchs RK**. Physical activity to promote bone health in adolescents. In: Gordon CM, Pitts S (eds.): *A Practical Guide to Adolescent Bone Health: A Guide for the Primary Care Provider*. Springer Science + Business Media

## 'In press' publications

3. Alotaibi AM, Anwar S, **Loghmani MT**, Chien S. Force sensing for an instrument-assisted soft tissue manipulation device. *Journal of Medical Devices*
4. **Comer AR**, Gaffney M, Stone C, Torke AM. Physician understanding and application of surrogate decision making laws in clinical practice. *AJOB Empirical Bioethics*
5. **Comer AR**, Gaffney M, Stone C, Torke AM. "What do you mean I cannot consent for my grandmother's medical procedure?": Key issues with state default surrogate decision making laws. *Indiana Health Law Review*
6. \*Elder WG, \***Munk N**, Love MM, Bruckner GG, Stewart, KE, Pearce, K. Real-world massage therapy produces meaningful effectiveness signal for primary care patients with chronic low back pain: results of a repeated measures cohort study. *Pain Medicine* (\*co-first authors)
7. Firulli BA, Millar H, Toolan KP, Harkin J, **Fuchs RK**, Robling AG, Firulli AB. Defective Hand1 phosphoregulation uncovers essential roles for Hand1 in limb morphogenesis. *Development*
8. Ward LM, Kinnett K, Bonewald L, on behalf of **Parent Project Muscular Dystrophy Bone Health Workshop Collaborators** (Adachi J, Bachrach L, Bellido T, Brotto M, Donovan J, Hoffman E, McMillan H, Novotny S, Rafael-Fortney J, Rauch F, **Warden SJ**). Morbidity due to osteoporosis in Duchenne muscular dystrophy: the path forward. *Neuromuscular Disorders*
9. **Warden SJ**, Burr DB. Bone stress injuries. In: Bilezikian JP (ed.): *Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism*. 9th ed. John Wiley & Sons, Inc.
10. **Warden SJ**, **Thompson WR**, Fletcher JM, Barker RG, Guildenbecher EA, Gorkis CE. Progress in the full-text publication rate of orthopaedic and sport physical therapy abstracts presented at the American Physical Therapy Association's Combined Sections Meeting. *Journal of Orthopaedic and Sports Physical Therapy*

