

Curriculum Vitae

Urszula T. Iwaniec, Ph.D.
School of Biological and Population Health Sciences
College of Public Health and Human Sciences
Oregon State University
Corvallis, OR 97331

A. Education, Employment, and Honors

Education

1984	B.A.	University of Illinois, Urbana, IL	Anthropology
1989	M.A.	Arizona State University, Tempe, AZ	Anthropology
1997	Ph.D.	University of Wisconsin, Madison, WI	Anthropology

Postgraduate Training

1997 – 2000	Postdoctoral Fellow, Osteoporosis Research Center, Creighton University, Omaha, NE
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Positions

1984	Primatology Research Assistant, Amazon Basin, Peru, South America
1985	Archaeologist, National Museum of Costa Rica, Costa Rica, Central America
1986 – 1989	Teaching/Research Assistant, Department of Anthropology, Arizona State University, Tempe, AZ
1989 – 1993	Research Assistant, Department of Anthropology, University of Wisconsin, Madison, WI
1994 – 1995	Instructor, Department of Anthropology, University of Wisconsin, Madison, WI
2000 – 2005	Assistant Research Scientist, Department of Physiological Sciences, University of Florida, Gainesville, FL
2005 – 2011	Assistant Professor, Department of Nutrition and Exercise Sciences, Oregon State University, Corvallis, OR
2011 – 2017	Associate Professor, School of Biological and Population Health Sciences, Oregon State University, Corvallis, OR
2017 – present	Professor, School of Biological and Population Health Sciences, Oregon State University, Corvallis, OR

Awards

1986	Regents Graduate Academic Scholarship, Arizona State University Phi Kappa Phi
1993	Department of Anthropology Travel and Research Award, University of Wisconsin-Madison Department of Anthropology Travel and Research Award, University of Wisconsin-Madison Kosciuszko Foundation Domestic Scholarship BASF Scholarship
1995	American Anthropological Association Student Poster Award Kosciuszko Foundation Domestic Scholarship

1995 – 1997	Kohler Fellowship, University of Wisconsin-Madison
2013	Excellence in Teaching and Mentoring Award, College of Public Health and Human Sciences, Oregon State University
2015	Faculty Excellence Award, College of Public Health and Human Sciences, Oregon State University

Membership in Professional Societies

1988 – 2002	American Association of Physical Anthropologists
1995 – 2000	American Anthropological Association
2010 – 2015	Endocrine Society
1993 – present	Sigma Xi
1995 – present	American Society of Bone and Mineral Research
2009 – present	International Society for Bone Morphometry
2018 – present	Society for Endocrinology
2019 – present	Research Society on Alcoholism

Board Membership

2012 – 2015	Sun Valley Hard Tissue Workshop	Advisory Board member
2009 – present	Ecology of Food and Nutrition (journal)	Editorial Advisory Board member
2013 – present	International Society of Bone Morphometry	Board of Directors
2016 – present	International Society of Bone Morphometry	Treasurer

Peer Review

2008	DOD	Deployment Related Medical Research Program, HAD Wound Infection/Healing/Vaccine #2, USAMRMC/CDMRP
2009	DOD	Breast Cancer Research Program, Concept - Molecular Biology and Genetics #1, USAMRMC/CDMRP
2009	NIH	National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS): Challenge Grants Special Emphasis Panel 21
2010	NIH	National Institute of Alcohol Abuse and Alcoholism (NIAAA): Special Emphasis Panel 10 ZAA1 GG (96)
2011	NIH	NIAMS: Skeletal Biology Development and Disease
2011		Arthritis Research, United Kingdom
2011		Foundation for Polish Science, Poland
2013 (February, June, October)	NIH	NIAMS: Skeletal Biology Development and Disease Study Section
2014 (June)	NIH	Special Emphasis Panel ZRG1 MOSS-A(02)
2015 (February)	NIH	NIAMS: Skeletal Biology Development and Disease Study Section
2015 (June)	NIH	NIAMS: Small Grants for New Investigators (R03) Special Emphasis Panel
2015 (October)		National Science Centre
2015 (October)		Austrian Science Fund, Austria
2016 (February)	NIH	NIAMS: Skeletal Biology Development and Disease Study Section
2017 (October)	NIH	Integrative Physiology of Obesity and Diabetes Study Section
2018 (June)	NIH	Aging Systems and Geriatrics Study Section

2018 (November)	Austrian Science Fund, Austria
2019 (February)	NIH NIAMS: Skeletal Biology Development and Disease Study Section
2005 – present	Alcohol and Alcoholism, Alcoholism: Clinical and Experimental Research, Anatomical Record, American Journal of Physical Anthropology, Applied Physical Activity Quarterly, Archives of Oral Biology, Biological Procedures Online, Biomechanics and Modeling in Mechanobiology, BMC Musculoskeletal Disorders, Biofactors, Bone, British Journal of Nutrition, Calcified Tissue International, Canadian Journal of Physiology and Pharmacology, Clinical and Experimental Pharmacology, Endocrine Research, Comprehensive Physiology, Evidence-based Complementary and Alternative Medicine, European Journal of Obstetrics and Gynecology and Reproductive Biology, Biology, Gastroenterology, Histochemistry and Cell Biology, International Journal of Molecular Sciences, Journal of Applied Physiology, Journal of Biomechanics, Journal of Biomedical Materials Research, Journal of Bone and Mineral Research, Journal of Clinical Endocrinology and Metabolism, Journal of Diabetes and Metabolism Disorders, Journal of Endocrinology, Journal of Musculoskeletal and Neuronal Interactions, Journal of Orthopedic Research, Journal of Orthopaedic Surgery and Research, Journal of Osteoporosis, Journal of Tissue Science and Engineering, Life Sciences, Medical Principles and Practice, Molecular Nutrition and Food Research, Journal of Orthopedic Research, Osteoporosis International, Pharmacological Reports, Peptides, PLoSOne, Regulatory Peptides, Scientific Reports, Toxicology Reports
2016	American Society of Bone and Mineral Research (ASBMR); <i>Ad hoc</i> abstract reviewer for the Preclinical Models: Nutrition category for ASBMR 2016 meeting

Visiting Professor

August, 2008	Department of Foods and Nutrition, Purdue University, Purdue, IN <i>Leptin, Obesity, and Bone Mass</i>
August, 2008	USDA ARS Grand Forks Human Nutrition Research Center, Grand Forks, ND <i>Leptin, Obesity, and Bone Mass</i>
August, 2008	Department of Endocrinology, Mayo Graduate School of Medicine, Rochester, MN <i>Leptin, Obesity, and Bone Mass</i>
October, 2012	Department of Endocrinology, Mayo Graduate School of Medicine, Rochester, MN <i>Skeletal Effects of Leptin</i>
April, 2012	Kathy Grant Laboratory, Oregon National Primate Research Center, Beaverton, OR <i>From Alcohol to Zebrafish: The Skeletal Biology Laboratory at OSU</i>
February, 2013	Division of Endocrinology, University of California, San Francisco, CA <i>Skeletal Effects of Leptin</i>
March, 2013	Department of Animal Sciences, University of Wisconsin, Madison, WI <i>Skeletal Effects of Leptin</i>
May, 2013	Oregon National Primate Research Center, Beaverton, OR <i>Effects of Chronic Alcohol Consumption on Bone in a Non-Human Primate Model</i>
March, 2014	Nutrition Obesity Research Center, University of Alabama, Birmingham, AL <i>Weight, Leptin, and Bone</i>
September, 2014	Jason Taylor Laboratory, The Hemophilia Center, Oregon Health and Science University, Portland, OR <i>Bone Imaging Techniques</i>
July, 2015	Department of Endocrinology, Mayo Graduate School of Medicine, Rochester, MN <i>Housing Mice at Room Temperature Results in Premature Bone Loss: Implications for the Mouse as a Model for Osteoporosis</i>
November, 2015	Cliff Rosen Laboratory, Maine Medical Center Research Institute, Portland ME <i>Housing Mice at Room Temperature Results in Premature Bone Loss: Implications for the Mouse as a Model for Osteoporosis</i>

Invited Speaker

- February, 2009 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV
The art of bone and cartilage histology and histomorphometry workshop organized by the Orthopaedic Research Society Women's Leadership Forum. Co-organizer with C.S. Carlson and G. Gronowicz.
- April, 2013 Oregon State University Gerontology Conference, Corvallis, OR
Organized session entitled "*Maintenance of Skeletal Health during Aging*" and presented 1st of three lectures on skeletal health.
- March, 2014 Nutrition Working Group session: *Role of Diet and Endocrine Factors Regulating Bone Due to Weight Change*, American Society of Bone and Mineral Research Annual Meeting, Baltimore MD
Role of Leptin and PTH in Regulating Bone during Weight Change
- November, 2015 Novel Approaches to Metabolic Drug Discovery; symposium sponsored by Charles River Laboratories International, Inc., Cambridge, MS
Housing Mice at Room Temperature Results in Premature Bone Loss: Implications for the Mouse as a Model for Osteoporosis
- June, 2016 The Charles River Short Course, Providence, RI
Vivarium Temperature and Bone Metabolism in Mice: Does Temperature Matter?

B. Research

Peer-reviewed Publications (total citations as of 2-21-19 = 3,269 (Google Scholar); H-index = 35)

1. Long JC, Williams RC, McAuley JE, Medis R, Partel R, Tregellas WM, South SF, Rea AE, McCormick SB, **Iwaniec U** 1991 Genetic variation in Arizona Mexican Americans: estimation and interpretation of admixture proportions. *Am J Phys Anthropol* 84(2):141-57.
2. Schoeninger MJ, **Iwaniec UT**, Glander KE 1997 Stable isotope ratios indicate diet and habitat use in New World monkeys. *Am J Phys Anthropol* 103(1):69-83.
3. **Iwaniec UT**, Crenshaw TD 1998 Distribution of mineralization indices of modeling and remodeling over eight months in mid-diaphyseal cross sections of femurs from adult swine. *Anat Rec* 250(2):136-45.
4. **Iwaniec UT**, Crenshaw TD, Schoeninger MJ, Stout SD, Ericksen MF 1998 Methods for improving the efficiency of estimating total osteon density in the human anterior mid-diaphyseal femur. *Am J Phys Anthropol* 107(1):13-24.
5. Schoeninger MJ, **Iwaniec UT**, Nash LT 1998 Ecological attributes recorded in stable isotopes of arboreal prosimian hair. *Oecologia* 113:222-230. (Number of times cited, **86**)
6. Fung YK, **Iwaniec U**, Cullen DM, Akhter MP, Haven MC, Timmins P 1999 Long-term effects of nicotine on bone and calciotropic hormones in adult female rats. *Pharmacol Toxicol* 85(4):181-7.
7. Akhter MP, **Iwaniec UT**, Covey MA, Cullen DM, Kimmel DB, Recker RR 2000 Genetic variations in bone density, histomorphometry, and strength in mice. *Calcif Tissue Int* 67(4):337-44.
8. **Iwaniec UT**, Fung YK, Cullen DM, Akhter MP, Haven MC, Schmid M 2000 Effects of nicotine on bone and calciotropic hormones in growing female rats. *Calcif Tissue Int* 67(1):68-74.
9. **Iwaniec UT**, Fung YK, Akhter MP, Haven MC, Nespor S, Haynatzki GR, Cullen DM 2001 Effects of nicotine on bone mass, turnover, and strength in adult female rats. *Calcif Tissue Int* 68(6):358-64.
10. **Iwaniec UT**, Samnegard E, Cullen DM, Kimmel DB 2001 Maintenance of cancellous bone in ovariectomized, human parathyroid hormone [hPTH(1-84)]-treated rats by estrogen, risedronate, or reduced hPTH. *Bone* 29(4):352-60.
11. Samnegard E, **Iwaniec UT**, Cullen DM, Kimmel DB, Recker RR 2001 Maintenance of cortical bone in human parathyroid hormone(1-84)-treated ovariectomized rats. *Bone* 28(3):251-60.

12. **Iwaniec UT**, Haynatzki GR, Fung YK, Akhter MP, Haven MC, Cullen DM 2002 Effects of nicotine on bone and calciotropic hormones in aged ovariectomized rats. *J Musculoskelet Neuronal Interact* 2(5):469-78.
13. Akhter MP, **Iwaniec UT**, Haynatzki GR, Fung YK, Cullen DM, Recker RR 2003 Effects of nicotine on bone mass and strength in aged female rats. *J Orthop Res* 21(1):14-9.
14. Akhter MP, Otero JK, **Iwaniec UT**, Cullen DM, Haynatzki GR, Recker RR 2004 Differences in vertebral structure and strength of inbred female mouse strains. *J Musculoskelet Neuronal Interact* 4(1):33-40.
15. **Iwaniec UT**, Mosekilde L, Mitova-Caneva NG, Thomsen JS, Wronski TJ 2002 Sequential treatment with basic fibroblast growth factor and PTH is more efficacious than treatment with PTH alone for increasing vertebral bone mass and strength in osteopenic ovariectomized rats. *Endocrinology* 143(7):2515-26.
16. Power RA, **Iwaniec UT**, Wronski TJ 2002 Changes in gene expression associated with the bone anabolic effects of basic fibroblast growth factor in aged ovariectomized rats. *Bone* 31(1):143-8.
17. **Iwaniec UT**, Magee KA, Mitova-Caneva NG, Wronski TJ 2003 Bone anabolic effects of subcutaneous treatment with basic fibroblast growth factor alone and in combination with estrogen in osteopenic ovariectomized rats. *Bone* 33(3):380-6.
18. Power RA, **Iwaniec UT**, Magee KA, Mitova-Caneva NG, Wronski TJ 2004 Basic fibroblast growth factor has rapid bone anabolic effects in ovariectomized rats. *Osteoporos Int* 15(9):716-23.
19. Cao JJ, Wronski TJ, **Iwaniec U**, Phleger L, Kurimoto P, Boudignon B, Halloran BP 2005 Aging increases stromal/osteoblastic cell-induced osteoclastogenesis and alters the osteoclast precursor pool in the mouse. *J Bone Miner Res* 20(9):1659-68.
20. Globus RK, Amblard D, Nishimura Y, **Iwaniec UT**, Kim JB, Almeida EA, Damsky CD, Wronski TJ, van der Meulen MC 2005 Skeletal phenotype of growing transgenic mice that express a function-perturbing form of beta1 integrin in osteoblasts. *Calcif Tissue Int* 76(1):39-49.
21. **Iwaniec UT**, Wronski TJ, Amblard D, Nishimura Y, van der Meulen MC, Wade CE, Bourgeois MA, Damsky CD, Globus RK 2005 Effects of disrupted beta1-integrin function on the skeletal response to short-term hindlimb unloading in mice. *J Appl Physiol* (1985) 98(2):690-6.
22. Wamsley HL, **Iwaniec UT**, Wronski TJ 2005 Selected extraskeletal effects of systemic treatment with basic fibroblast growth factor in ovariectomized rats. *Toxicol Pathol* 33(5):577-83.
23. **Iwaniec UT**, Yuan D, Power RA, Wronski TJ 2006 Strain-dependent variations in the response of cancellous bone to ovariectomy in mice. *J Bone Miner Res* 21(7):1068-74.
24. **Iwaniec UT**, Moore K, Rivera MF, Myers SE, Vanegas SM, Wronski TJ 2007 A comparative study of the bone-restorative efficacy of anabolic agents in aged ovariectomized rats. *Osteoporos Int* 18(3):351-62.
25. **Iwaniec UT**, Wronski TJ, Liu J, Rivera MF, Arzaga RR, Hansen G, Brommage R 2007 PTH stimulates bone formation in mice deficient in Lrp5. *J Bone Miner Res* 22(3):394-402.
Featured on journal cover
26. Almeida EA, Roden C, Phillips JA, Globus RK, Searby N, Vercoutere W, Morey-Holton E, Gulimova V, Saveliev S, Tairbekov M, **Iwaniec UT**, McNamra AJ, Turner RT 2006 Development of the gecko (*Pachydactylus turneri*) animal model during Foton M-2 to study comparative effects of microgravity in terrestrial and aquatic organisms. *J GravitPhysiol* 13(1):P193-P196.
27. Cicek M, **Iwaniec UT**, Goblirsch MJ, Vrabel A, Ruan M, Clohisy DR, Turner RR, Oursler MJ 2007 2-Methoxyestradiol suppresses osteolytic breast cancer tumor progression *in vivo*. *Cancer Res* 67(21):10106-11.
Featured on journal cover
28. **Iwaniec UT**, Boghossian S, Lapke PD, Turner RT, Kalra SP 2007 Central leptin gene therapy corrects skeletal abnormalities in leptin-deficient *ob/ob* mice. *Peptides* 28(5):1012-9.

29. Sibonga JD, **Iwaniec UT**, Shogren KL, Rosen CJ, Turner RT 2007 Effects of parathyroid hormone (1-34) on tibia in an adult rat model for chronic alcohol abuse. *Bone* 40(4):1013-20.
30. Trevisiol CH, Turner RT, Pfaff JE, Hunter JC, Menagh PJ, Hardin K, Ho E, **Iwaniec UT** 2007 Impaired osteoinduction in a rat model for chronic alcohol abuse. *Bone* 41(2):175-80.
31. Turner RT, Evans GL, Lotinun S, Lapke PD, **Iwaniec UT**, Morey-Holton E 2007 Dose-response effects of intermittent PTH on cancellous bone in hindlimb unloaded rats. *J Bone Miner Res* 22(1):64-71.
32. Hawse JR, **Iwaniec UT**, Bensamoun SF, Monroe DG, Peters KD, Ilharreborde B, Rajamannan NM, Oursler MJ, Turner RT, Spelsberg TC, Subramaniam M 2008 TIEG-null mice display an osteopenic gender-specific phenotype. *Bone* 42(6):1025-31.
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33. Hydock DS, **Iwaniec UT**, Turner RT, Lien CY, Jensen BT, Parry TL, Schneider CM, Hayward R 2008 Effects of voluntary wheel running on goserelin acetate-induced bone degeneration. *Pathophysiology* 15(4):253-9.
34. **Iwaniec UT**, Trevisiol CH, Maddalozzo GF, Rosen CJ, Turner RT 2008 Effects of low-dose parathyroid hormone on bone mass, turnover, and ectopic osteoinduction in a rat model for chronic alcohol abuse. *Bone* 42(4):695-701.
35. **Iwaniec UT**, Wronski TJ, Turner RT 2008 Histological analysis of bone. *Methods Mol Biol* 447:325-41.
36. Jokihäärä J, Porsti IH, Koobi P, Jolma PM, Mustonen JT, Saha HH, Sievanen H, Kannus P, **Iwaniec UT**, Turner RT, Jarvinen TL 2008 Treatment of experimental renal osteodystrophy with pamidronate. *Kidney Int* 74(3):319-27.
37. Lowry MB, Lotinun S, Leontovich AA, Zhang M, Maran A, Shogren KL, Palama BK, Marley K, **Iwaniec UT**, Turner RT 2008 Osteitis fibrosa is mediated by platelet-derived growth factor-A via a phosphoinositide 3-kinase-dependent signaling pathway in a rat model for chronic hyperparathyroidism. *Endocrinology* 149(11):5735-46.
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38. Maddalozzo GF, **Iwaniec UT**, Turner RT, Rosen CJ, Widrick JJ 2008 Whole-body vibration slows the acquisition of fat in mature female rats. *Int J Obes (Lond)* 32(9):1348-54.
39. Rickard DJ, **Iwaniec UT**, Evans G, Hefferan TE, Hunter JC, Waters KM, Lydon JP, O'Malley BW, Khosla S, Spelsberg TC, Turner RT 2008 Bone growth and turnover in progesterone receptor knockout mice. *Endocrinology* 149(5):2383-90.
40. Widrick JJ, Maddalozzo GF, Hu H, Herron JC, **Iwaniec UT**, Turner RT 2008 Detrimental effects of reloading recovery on force, shortening velocity, and power of soleus muscles from hindlimb-unloaded rats. *Am J Physiol Regul Integr Comp Physiol* 295(5):R1585-92.
41. **Iwaniec UT**, Dube MG, Boghossian S, Song H, Helferich WG, Turner RT, Kalra SP 2009 Body mass influences cortical bone mass independent of leptin signaling. *Bone* 44(3):404-12.
Translated into Turkish
42. **Iwaniec UT**, Turner RT, Koo SI, Kaur R, Ho E, Wong CP, Bruno RS 2009 Consumption of green tea extract results in osteopenia in growing male mice. *J Nutr* 139(10):1914-9.
43. Kalra SP, Dube MG, **Iwaniec UT** 2009 Leptin increases osteoblast-specific osteocalcin release through a hypothalamic relay. *Peptides* 30(5):967-73.
44. Maddalozzo GF, Turner RT, Edwards CH, Howe KS, Widrick JJ, Rosen CJ, **Iwaniec UT** 2009 Alcohol alters whole body composition, inhibits bone formation, and increases bone marrow adiposity in rats. *Osteoporos Int* 20(9):1529-38.
45. Menagh PJ, Turner RT, Jump DB, Wong CP, Lowry MB, Yakar S, Rosen CJ, **Iwaniec UT** 2010 Growth hormone regulates the balance between bone formation and bone marrow adiposity. *J Bone Miner Res* 25(4):757-68.

46. Turner RT, **Iwaniec UT** 2010 Moderate weight gain does not influence bone metabolism in skeletally mature female rats. *Bone* 47(3):631-5.
47. Turner RT, **Iwaniec UT**, Marley K, Sibonga JD 2010 The role of mast cells in parathyroid bone disease. *J Bone Miner Res* 25(7):1637-49.
Featured in journal's virtual issue on PTH
48. Turner RT, Rosen CJ, **Iwaniec UT** 2010 Effects of alcohol on skeletal response to growth hormone in hypophysectomized rats. *Bone* 46(3):806-12.
49. Howe KS, **Iwaniec UT**, Turner RT 2011 The effects of low dose parathyroid hormone on lumbar vertebrae in a rat model for chronic alcohol abuse. *Osteoporos Int* 22(4):1175-81.
50. **Iwaniec UT**, Boghossian S, Trevisiol CH, Wronski TJ, Turner RT, Kalra SP 2011 Hypothalamic leptin gene therapy prevents weight gain without long-term detrimental effects on bone in growing and skeletally mature female rats. *J Bone Miner Res* 26(7):1506-16.
51. Jackson MA, **Iwaniec UT**, Turner RT, Wronski TJ, Kalra SP 2011 Effects of increased hypothalamic leptin gene expression on ovariectomy-induced bone loss in rats. *Peptides* 32(8):1575-80.
52. Turner RT, **Iwaniec UT** 2011 Low dose parathyroid hormone maintains normal bone formation in adult male rats during rapid weight loss. *Bone* 48(4):726-32.
53. Turner RT, Wong CP, **Iwaniec UT** 2011 Effect of reduced c-Kit signaling on bone marrow adiposity. *Anat Rec (Hoboken)* 294(7):1126-34.
54. Marrone JA, Maddalozzo GF, Branscum AJ, Hardin K, Cialdella-Kam L, Philbrick KA, Breggia AC, Rosen CJ, Turner RT, **Iwaniec UT** 2012 Moderate alcohol intake lowers biochemical markers of bone turnover in postmenopausal women. *Menopause* 19(9):974-9.
Subject of editorial [Menopause 2012 19:954-5]
55. Tal TL, Franzosa JA, Tilton SC, Philbrick KA, **Iwaniec UT**, Turner RT, Waters KM, Tanguay RL 2012 MicroRNAs control neurobehavioral development and function in zebrafish. *FASEB J* 26(4):1452-61.
56. Wrenn KM, Zhang XW, Olson DA, Turner RT, **Iwaniec UT** 2012 Androgen prevents hypogonadal bone loss via inhibition of resorption mediated by mature osteoblasts/osteocytes. *Bone* 51(5):835-46.
57. Hayward R, **Iwaniec UT**, Turner RT, Lien CY, Jensen BT, Hydock DS, Schneider CM 2013 Voluntary wheel running in growing rats does not protect against doxorubicin-induced osteopenia. *J Pediatr Hematol Oncol* 35(4):e144-8.
58. **Iwaniec UT**, Turner RT 2013 Intraperitoneal injection of ethanol results in drastic changes in bone metabolism not observed when ethanol is administered by oral gavage. *Alcohol Clin Exp Res* 37(8):1271-7.
59. **Iwaniec UT**, Turner RT 2013 Failure to generate bone marrow adipocytes does not protect mice from ovariectomy-induced osteopenia. *Bone* 53(1):145-53.
60. **Iwaniec UT**, Turner RT, Smith BJ, Stoecker BJ, Rust A, Zhang B, Vasu VT, Gohil K, Cross CE, Traber MG 2013 Evaluation of long-term vitamin E insufficiency or excess on bone mass, density, and microarchitecture in rodents. *Free Radic Biol Med* 65:1209-14.
61. Turner RT, **Iwaniec UT**, Andrade JE, Branscum AJ, Neese SL, Olson DA, Wagner L, Wang VC, Schantz SL, Helferich WG 2013 Genistein administered as a once-daily oral supplement had no beneficial effect on the tibia in rat models for postmenopausal bone loss. *Menopause* 20(6):677-86.
62. Turner RT, **Iwaniec UT**, Wong CP, Lindenmaier LB, Wagner LA, Branscum AJ, Menn SA, Taylor J, Zhang Y, Wu H, Sibonga JD 2013 Acute exposure to high dose gamma-radiation results in transient activation of bone lining cells. *Bone* 57(1):164-73.

63. Turner RT, Kalra SP, Wong CP, Philbrick KA, Lindenmaier LB, Boghossian S, **Iwaniec UT** 2013 Peripheral leptin regulates bone formation. *J Bone Miner Res* 28(1):22-34.
Featured on journal cover
Subject of editorial [*J Bone Miner Res* 28(1):18-21].
64. Yang X, Belosay A, Du M, Fan TM, Turner RT, **Iwaniec UT**, Helferich WG 2013 Estradiol increases ER-negative breast cancer metastasis in an experimental model. *Clin Exp Metastasis* 30(6):711-21.
65. Gingery A, Subramaniam M, Pitel KS, Reese JM, Cicek M, Lindenmaier LB, Ingle JN, Goetz MP, Turner RT, **Iwaniec UT**, Spelsberg TC, Hawse JR 2014 The effects of a novel hormonal breast cancer therapy, endoxifen, on the mouse skeleton. *PLoS One* 9(5):e98219.
66. Hawse JR, Pitel KS, Cicek M, Philbrick KA, Gingery A, Peters KD, Syed FA, Ingle JN, Suman VJ, **Iwaniec UT**, Turner RT, Spelsberg TC, Subramaniam M 2014 TGFbeta inducible early gene-1 plays an important role in mediating estrogen signaling in the skeleton. *J Bone Miner Res* 29(5):1206-16.
67. Hydock DS, Parry TL, Wymore JD, **Iwaniec UT**, Turner RT, Schneider CM, Hayward R 2014 Effects of treadmill training on combined goserelin acetate and doxorubicin-induced osteopenia in female rats. *J Musculoskelet Neuronal Interact* 14(1):10-8.
68. Johnson TL, Gaddini G, Branscum AJ, Olson DA, Caroline-Westerlind K, Turner RT, **Iwaniec UT** 2014 Effects of chronic heavy alcohol consumption and endurance exercise on cancellous and cortical bone microarchitecture in adult male rats. *Alcohol Clin Exp Res* 38(5):1365-72.
69. Turner RT, Philbrick KA, Wong CP, Olson DA, Branscum AJ, **Iwaniec UT** 2014 Morbid obesity attenuates the skeletal abnormalities associated with leptin deficiency in mice. *J Endocrinol* 223(1):M1-15.
70. Gaddini GW, Grant KA, Woodall A, Stull C, Maddalozzo GF, Zhang B, Turner RT, **Iwaniec UT** 2015 Twelve months of voluntary heavy alcohol consumption in male rhesus macaques suppresses intracortical bone remodeling. *Bone* 71:227-36.
71. Keune JA, Branscum AJ, **Iwaniec UT**, Turner RT 2015 Effects of spaceflight on bone microarchitecture in the axial and appendicular skeleton in growing ovariectomized rats. *Sci Rep* 5:18671.
72. Kyrilkova K, **Iwaniec UT**, Philbrick KA, Leid M 2015 BCL11B regulates sutural patency in the mouse craniofacial skeleton *Dev Biol* pii: S0012-1606(15)30228-1.
73. Philbrick KA, Turner RT, Branscum AJ, Wong CP, **Iwaniec UT** 2015 Paradoxical effects of partial leptin deficiency on bone in growing female mice. *Anat Rec* 298(12):2018-29.
74. Turner RT, Dube M, Branscum AJ, Wong CP, Olson DA, Zhong X, Kweh MF, Larkin IV, Wronski TJ, Rosen CJ, Kalra SP, **Iwaniec UT** 2015 Hypothalamic leptin gene therapy reduces body weight without accelerating age-related bone loss. *J Endocrinol* 227(3):129-41.
75. Gaddini GW, Turner RT, Grant KA, **Iwaniec UT** 2016 Alcohol: a simple nutrient with complex actions on bone in the adult skeleton. *Alcohol Clin Exp Res* 40(4):657-71.
76. **Iwaniec UT**, Philbrick KA, Wong CP, Gordon JL, Kahler-Quesada AM, Olson DA, Branscum AJ, Sargent JL, DeMambro VE, Rosen CJ, Turner RT 2016 Room temperature housing results in premature cancellous bone loss in growing female mice: implications for the mouse as a preclinical model for age-related bone loss. *Osteoporos Int.* 2:16016.
77. Keune JA, Philbrick KA, Branscum AJ, **Iwaniec UT**, Turner RT 2016 Spaceflight-induced vertebral bone loss in ovariectomized rats is associated with increased bone marrow adiposity and no change in bone formation. *Npj Microgravity*, vol. 2. Macmillan Publishers Limited, pp 16016.
78. Madak-Erdogan Z, Gong P, Zhao YC, Xu L, Wrobel KU, Hartman JA, Wang M, Cam A, **Iwaniec UT**, Turner RT, Twaddle NC, Doerge DR, Khan IA, Katzenellenbogen JA, Katzenellenbogen BS, Helferich WG 2016 Dietary licorice root supplementation reduces diet-induced weight gain, lipid

- deposition, and hepatic steatosis in ovariectomized mice without stimulating reproductive tissues and mammary gland. *Mol Nutr Food Res* 60(2):369-80.
79. Shahnazari M, Turner RT, **Iwaniec UT**, Wronski TJ, Li M, Ferruzzi MG, Nissenson RA, Halloran BP 2016 Dietary dried plum increases bone mass, suppresses proinflammatory cytokines and promotes attainment of peak bone mass in male mice. *J Nutr Biochem* 34:73-82.
 80. Wang W, Belosay A, Yang X, Hartman JA, Song H, **Iwaniec UT**, Turner RT, Churchwell MI, Doerge DR, Helferich WG 2016 Effects of letrozole on breast cancer micro-metastatic tumor growth in bone and lung in mice inoculated with murine 4T1 cells. *Clin Exp Metastasis* 33(5):475-85.
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 81. **Iwaniec UT**, Turner RT 2016 Influence of body weight on bone mass, architecture, and turnover. *J Endocrinol* 230(3):R115-30.
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 76. Gingery A, Subramaniam M, Cicek M, Pitel K, **Iwaniec UT**, Turner RT, Ingle J, Goetz M, Spelsberg T, Hawse J. Endoxifen differs from other selective estrogen receptor modulators *in vitro* and enhances bone mass in ovariectomized mice. *J Bone Miner Res.* 2012; 27(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Minneapolis, MN.
 77. Turner RT, **Iwaniec UT**, Philbrick K A, Lindenmaier LB, Olson DA, Maddalozzo G. Mice like it hot: housing mice at room temperature results in cancellous bone loss. *J Bone Miner Res.* 2012; 27(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Minneapolis, MN. **Plenary poster**
 78. Philbrick KA, Wagner L, Olson DA, Turner RT, **Iwaniec UT**. Polyethylene particles placed over the calvarium reduce cancellous bone formation in the femur. *J Bone Miner Res.* 2012; 27(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Minneapolis, MN.
 79. Hawse H, Cicek M, Gingery A, Pitel K, Grygo S, **Iwaniec UT**, Turner RT, Subramaniam M, Spelsberg T. Tgf- β inducible early gene-1 mediates both estrogen and canonical WNT signaling pathways in bone. *J Bone Miner Res.* 2012; 27(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Minneapolis, MN.
 80. Turner RT, Wong CP, Lindenmaier LB, **Iwaniec UT**. Effects of marrow transplantation on bone architecture and turnover. XII Congress of the International Society of Bone Morphometry. 2012. Minneapolis, MN. **Oral presentation**
 81. **Iwaniec UT**, Wang W, Yang, X, Gordon J, Olson DA, Wymore J, Turner RT, Helferich WT. Low calcium intake increases 4T1 breast cell tumor growth in bone and metastasis to lung in mice. XII Congress of the International Society of Bone Morphometry. 2012. Minneapolis, MN. **Oral presentation**
 82. Bredahl E, Hydock DS, **Iwaniec UT**, Turner RT, Parry TL, Schneider CM, Hayward R. Effects of treadmill training on doxorubicin and goserelin acetate-induced bone degeneration. APS Intersociety Meeting: The Integrated Biology of Exercise VI. 2012. Westminster, CO.
 83. Gingery A, Hawse JR, Cicek M, Pitel KS, Gyrgo SB, **Iwaniec UT**, Turner RT, Subramaniam M, Spelsberg TIEG TC. TIEG regulates estrogen and canonical Wnt signaling in bone. International Bone and Mineral Society and the Japanese Society for Bone and Mineral Research Meeting. 2013. Kobe, Japan. **Oral presentation**
 84. Gingery A, Subramaniam M, Pitel KS, **Iwaniec UT**, Lindenmaier LB, Turner RT, Ingle JN, Goetz MP, Spelsberg TC, Hawse JR. Endoxifen prevents bone loss in ovariectomized animals. International Bone and Mineral Society and the Japanese Society for Bone and Mineral Research Meeting. 2013. Kobe, Japan. **Oral poster**
 85. Philbrick KA, Wong CP, Turner RT, **Iwaniec UT**. Leptin increases polyethylene particle-induced osteolysis in *ob/ob* mice. *J Bone Miner Res.* 2013; 28(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Baltimore, MD.
 86. Gingery A, Subramaniam M, Pitel KS, Lindenmaier LB, Ingle JN, Goetz MP, Turner RT, **Iwaniec UT**, Spelsberg TC, Hawse JR. Novel therapeutic effects of endoxifen in pre-clinical models of type 1 osteoporosis. *J Bone Miner Res.* 2013; 28(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Baltimore, MD.
 87. Hawse H, Gingery A, Subramaniam M, Pitel KS, Lindenmaier LB, **Iwaniec UT**, Turner RT, Spelsberg TC, Ingle JN, Goetz MP. Endoxifen, a novel breast cancer therapy, elicits unique

- beneficial effects on bone relative to that of other selective estrogen receptor modulators. 2013. San Antonio Breast Cancer Symposium. San Antonio, TX.
88. Turner RT, Philbrick KA, Lindenmaier LB, Wong CP, Olson DA, Branscum AJ, **Iwaniec UT**. Leptin stimulates bone formation at very low circulating levels. 44th International Sun Valley Workshop. 2014. Sun Valley, ID. **Oral presentation**
 89. **Iwaniec UT**, Turner RT. Alcohol and bone. Symposium on Data Integration from the Monkey Model of Alcohol Drinking. 2014. Portland, OR. **Oral presentation**
 90. Keune JA, Olson DA, Branscum AJ, **Iwaniec UT**, Turner RT. Site-specific effects of spaceflight on cancellous bone microarchitecture in ovariectomized rats with established osteopenia. Bone Miner Res. 2014; 29(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Houston, TX. **Plenary poster**
 91. Gingery KA, Pitel KS Gaddini GW, Li X, Ke HZ, Turner RT, Rajamannan NM, **Iwaniec UT**, Spelsberg TC, Subramaniam M, Hawse JR. TIEG suppresses SOST expression and mediates the skeletal response to sclerostin antibody therapy. Bone Miner Res. 2014; 29(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Houston, TX.
 92. Larson EA, **Iwaniec UT**, Holmgren SC, Turner RT, Recht M, Taylor JA. Age-associated bone disease in factor VIII-deficient mice. American Society of Hematology Annual Meeting. 2014. San Francisco, CA.
 93. Turner RT, Philbrick KA, Keune JA, Wong CP, Olson DA, Branscum AJ, **Iwaniec UT**. Housing mice at room temperature results in premature age-related cancellous bone loss: implications for spaceflight studies. Human Research Program Investigator's Workshop: Integrated Pathways to Mars. 2015. Galveston, TX.
 94. **Iwaniec UT**, Philbrick KA, Wong CP, Olson DA, Branscum AJ, Turner RT. Housing mice at room temperature results in premature bone loss: implications for the mouse as a model for osteoporosis. 13th Congress of the International Society of Bone Morphometry. 2015. Tokyo, Japan. **Oral presentation**
 95. Philbrick KA, Turner RT, Branscum AJ, Wong CP, **Iwaniec UT**. Paradoxical effects of partial leptin deficiency on bone in growing rats. 13th Congress of the International Society of Bone Morphometry. 2015. Tokyo, Japan.
 96. Turner RT, **Iwaniec UT**. Housing mice at room temperature results in premature age-related cancellous bone loss: implications for spaceflight studies. Investigator Working Meeting, NASA. 2015. Mountain View, CA. **Oral presentation**
 97. Philbrick KA, Kyrylkova K, **Iwaniec UT**, Leid M. BCL11B: a transcriptional regulator of sutural patency. Bone Miner Res. 2015; 30(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Seattle, WA.
 98. Philbrick KA, Turner RT, Wong CP, Kuah A, Olson DA, Branscum AJ, **Iwaniec UT**. Peripheral leptin stimulates bone formation at very low circulating levels. Bone Miner Res. 2015; 30(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Seattle, WA.
 99. **Iwaniec UT**, Philbrick KA, Wong CP, Olson DA, Kahler-Quesada A, Branscum AJ, Turner RT. Thermoneutral housing prevents premature age-related cancellous bone loss in mice. Bone Miner Res. 2015; 30(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Seattle, WA.
 100. Keune JA, Branscum AJ, **Iwaniec UT**, Turner RT. Inability to generate bone marrow adipocytes does not protect the skeleton from disuse-induced cancellous bone loss in adult male mice. Bone Miner Res. 2015; 30(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Seattle, WA.
 101. Gingery A, Subramaniam M, Pitel KS, Ingle JN, Goetz MP, Turner RT, **Iwaniec UT**, Spelsberg TC, Hawse JR. Effects of endoxifen, a selective estrogen receptor modulator, on bone in ovary-intact

- and ovariectomized rats. *Bone Miner Res.* 2015; 30(Suppl 1). Annual meeting of the American Society for Bone and Mineral Research. Seattle, WA.
102. Keune JA, Wong CP, Branscum AJ, **Iwaniec UT**, Turner RT. Marrow adipose tissue attenuates bone loss in hindlimb-unloaded adult male mice. The American Society for Gravitational and Space Research Annual Conference. 2015. Alexandria, VA. **Oral Presentation**
 103. Kasper K, Leonard S, Wong CP, **Iwaniec UT**, Turner RT, Traber MG. Vitamin E does not dysregulate bone homeostasis in rats fed adequate vitamin K. Diet and Optimum Health Conference. 2015. Corvallis, OR.
 104. Collar EM, Huber MJ, **Iwaniec UT**, Duesterdieck-Zellmer K, Stover SM. Third carpal bone fracture is associated with focal subchondral bone porosity in racehorses. Proceedings of the Veterinary Orthopedic Society. 43. 2016. Big Sky, MT.
 105. **Iwaniec UI**, Philbrick KA, Wong CP, Olson DA, Branscum AJ, and Turner RT. Housing growing mice at thermoneutral temperature (32°C) increases cancellous bone volume fraction and marrow adiposity. 2nd Bone Marrow Adiposity Meeting. Rotterdam, The Netherlands. 8/25/16 to 8/26/16. **Oral presentation.**
 106. Subramaniam M, Pitel K, Turner RT, **Iwaniec UT**, van Wijnen A, Hawse J. Loss of TIEG expression alters the miRNAome and transcriptome of cortical and trabecular bone resulting in impaired estrogen signaling in the mouse skeleton. Annual meeting of the American Society for Bone and Mineral Research. Atlanta, GA. 9/16/16 to 9/19/16.
 107. Lee B, **Iwaniec UT**, Turner RT, Wei L, Gingery A. Macrophage progenitor RIP140 knockdown regulates osteoclast differentiation and results in osteopenia. Annual meeting of the American Society for Bone and Mineral Research. Atlanta, GA. 9/16/16 to 9/19/16.
 108. Collar EM, Huber MJ, **Iwaniec UT**, Duesterdieck-Zellmer KF, Stover SM. (2016) Third carpal bone fracture is associated with focal subchondral bone porosity in racehorses. Scientific Presentation Abstracts. *Veterinary Surgery*. 45, E23-E51. Seattle, WA. 10-5-16 to 10-8-16.
 109. **Iwaniec UT** and Turner RT. Alcohol: a simple nutrient with complex actions on the skeleton. Gordon Research Conference; Alcohol-induced End Organ Diseases. Ventura, CA. 3-26-17 to 3-30-17. **Oral presentation.**
 110. Turner RT, Deyhle R, Wong CP, Iwaniec UT. Brown adipose tissue is activated in mice flown aboard ISS. International Space Research and Development Conference. Washington, DC. 7/18/2017 – 7/20/2017.
 111. **Iwaniec UI**. Effects of alcohol on bone in non-human primates. 2nd Symposium on Data Integration from the Monkey Model of Alcohol Drinking. Portland, OR. 8/25/17. **Oral presentation.**
 112. Philbrick K, Lindenmaier L, Colagiovanni A, Olson D, Kalra S, Branscum A, **Iwaniec U**, Turner R. Bone compartment specific effects of long duration hypothalamic leptin gene therapy on osteopetrosis in leptin-deficient *ob/ob* mice. Annual meeting of the American Society for Bone and Mineral Research. Denver, CO. 9/8/17 – 9/11/17.
 113. Subramaniam M, Saadalla A, Nelson Holte M, Weivoda M, Ousler MJ, Khazaie K, Turner R, **Iwaniec U**, Hawse J. Deletion of TIEG in CD4+ T-cells results in a sexually dimorphic bone phenotype. Annual meeting of the American Society for Bone and Mineral Research. Denver, CO. 9/8/17 – 9/11/17. **Plenary poster**
 114. Lee B, **Iwaniec UT**, Turner RT, Lin Y, Clarke BL, Wei L. RIP140 in osteoclast precursors regulates bone homeostasis, growth and osteoclast activity. Annual meeting of the American Society for Bone and Mineral Research. Denver, CO. 9/8/17 – 9/11/17. **Oral presentation**
 115. Cheung W, **Iwaniec U**, Hao S, Wang Z, Turner R, Mak R. Leptin signaling blockade ameliorates uremic muscle wasting and bone disease in chronic kidney disease. Annual Meeting of the American Society for Nephrology. New Orleans, LA. 10/31/2017 – 11/5/2017.
 116. Keune JA, Branscum AJ, **Iwaniec UT**, Turner RT. Excessive bone marrow adiposity does not

exacerbate disuse induced bone loss in male *ob/ob* mice. 33rd Annual Meeting of the American Society for Gravitational and Space Research. Seattle, WA. 10/25/2017 – 10/28/2017. **Oral presentation**

117. Turner RT, **Iwaniec UT**, Wong CP. Spaceflight increases adaptive thermogenesis in female C57Bl6 mice. 33rd Annual Meeting of the American Society for Gravitational and Space Research. Seattle, WA. 10/25/2017 – 10/28/2017. **Oral presentation**

C. Research Support

Active Research Support

09/20/2017 – 05/31/2022
R01 AA026289 NIH/NIAAA
Iwaniec, Urszula (PI)

Complex Systems Analysis of the Impact of Alcohol on Bone in Non-Human Primates

The goal of this project is to evaluate the impact of pattern of alcohol consumption (none, light/moderate, binge, heavy, and very heavy) on bone in a non-human primate model for voluntary drinking that mimics the full range of human drinking behavior.

02/01/2019 – 08/31/2021
NASA
Turner, Russell (PI)

Housing Temperature: An Important Variable for Simulated Spaceflight Studies Using Mice

The goal of the project is to evaluate the individual and combined effects of mild cold stress induced by room temperature housing and hindlimb unloading on the skeleton in C57Bl6 mice, a strain commonly used in spaceflight studies.

Role: Co-Investigator

Completed Research Support (last 3 years)

07/01/2012 – 06/30/2017
R56DE014036, NIH/NIDR
Spelsberg, Thomas (PI)

Role of a TGF β Regulated Gene (TIEG) in Human and Mouse Osteoblasts and Skeleton

The goal of this project is to define the role of TIEG in osteoblast formation and function.

Role: Co-I

04/01/2015 – 03/31/2017
1R21AR066811, NIH/NIAMS
Turner, Russell (PI)

Mast Cells Mediate the Skeletal Response to Intermittent and Continuous PTH

The goal of this project is to establish a novel mouse model to evaluate the precise role of mast cells in the differential skeletal response to intermittent and continuous parathyroid hormone.

Role: Co-I

09/01/2011 – 08/31/2016
R01 RAR060913, NIH/NIAMS
Iwaniec, Urszula (PI)

The Role of Leptin in Inflammation-driven Bone Loss

The goal of this project is to define the contribution of hyperleptinemia to inflammation-driven bone loss.

Role: PI

09/01/2010 – 08/31/2016
1P50AT006268-01, NIH
Helferich, William (PI)

Botanical Estrogens: Mechanisms, Dose and Target Tissues

The goal of this project is to assess the efficacy, safety, and mechanisms of action of estrogenic botanicals.

Role: Co-I

06/01/2015 – 09/31/2016

NNH14ZTT002N, NASA

Turner, Russell (PI)

Spaceflight-Induced Changes in Non-Shivering Thermogenesis and Effects on Bone in Mice

The goal of the project is to evaluate the role of elevated non-shivering thermogenesis in promoting bone loss during spaceflight.

Role: Co-I

D. Current Teaching

Graduate Courses

Course: NUTR/EXSS 599/699; **Neuroendocrine Regulation of Energy Metabolism**

Course: NUTR/EXSS 599/699; **Bone Physiology**

Undergraduate Courses

Course: NUTR 325; **Nutrition through the Life Cycle - A Physiological Approach**