

Selected ASBMR Citations of BIOQUANT OSTEO II Clientele 2008

- Wu Y, **Humphrey MB**, Nakamura MC.
Osteoclasts - the innate immune cells of the bone.
Autoimmunity. 2008 Apr;41(3):183-94. Review.
- Wei T, Sabsovich I, Guo TZ, Shi X, Zhao R, Li W, Geis C, Sommer C, **Kingery WS**, Clark DJ.
Pentoxifylline attenuates nociceptive sensitization and cytokine expression in a tibia fracture rat model of complex regional pain syndrome.
Eur J Pain. 2008 Jun 11.
- Sabsovich I, Wei T, Guo TZ, Zhao R, Shi X, Li X, Yeomans DC, Klyukin M, **Kingery WS**, Clark JD.
Effect of anti-NGF antibodies in a rat tibia fracture model of complex regional pain syndrome type I.
Pain. 2008 Aug 15;138(1):47-60. Epub 2008 Feb 20.
- Sabsovich I, Guo TZ, Wei T, Zhao R, Li X, Clark DJ, Geis C, Sommer C, **Kingery WS**.
TNF signaling contributes to the development of nociceptive sensitization in a tibia fracture model of complex regional pain syndrome type I.
Pain. 2008 Jul 31;137(3):507-19. Epub 2007 Nov 26.
- Sabsovich I, Clark JD, Liao G, Peltz G, Lindsey DP, Jacobs CR, Yao W, Guo TZ, **Kingery WS**.
Bone microstructure and its associated genetic variability in 12 inbred mouse strains: microCT study and in silico genome scan.
Bone. 2008 Feb;42(2):439-51. Epub 2007 Sep 22.
- Zhu S, **Barbe MF**, Amin N, Rani S, Popoff SN, Safadi FF, Litvin J.
Immunolocalization of Periostin-like factor and Periostin during embryogenesis.
J Histochem Cytochem. 2008 Apr;56(4):329-45. Epub 2007 Nov 26.
- Pierce SR, **Barbe MF**, Barr AE, Shewokis PA, Lauer RT.
Roles of Reflex Activity and Co-contraction During Assessments of Spasticity of the Knee Flexor and Knee Extensor Muscles in Children With Cerebral Palsy and Different Functional Levels.
Phys Ther. 2008 Aug 14. [Epub ahead of print]
- Abdelmagid SM, **Barbe MF**, Rico MC, Salihoglu S, Arango-Hisijara I, Selim AH, Anderson MG, Owen TA, Popoff SN, Safadi FF.
Osteoactivin, an anabolic factor that regulates osteoblast differentiation and function.
Exp Cell Res. 2008 Aug 1;314(13):2334-51. Epub 2008 Mar 10.
- Kurtoglu C, Gur OH, **Kurkcü M**, Sertdemir Y, Guler-Uysal F, Uysal H.
Effect of botulinum toxin-A in myofascial pain patients with or without functional disc displacement.
J Oral Maxillofac Surg. 2008 Aug;66(8):1644-51.
- Kürkcü M**, Benlidayi ME, Kurtoğlu C, Kesiktaş E.
Placement of implants in the mandible reconstructed with free vascularized fibula flap: comparison of 2 cases.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2008 Mar;105(3):e36-40.
- Gokce S, Bengi AO, Akin E, Karacay S, Sagdic D, **Kurkcü M**, Gokce HS.
Effects of hyperbaric oxygen during experimental tooth movement.
Angle Orthod. 2008 Mar;78(2):304-8.
- Kürkcü M**, Benlidayi ME, Ozsoy S, Ozyeğin LS, Oktar FN, Kurtoğlu C.
Histomorphometric evaluation of implants coated with enamel or dentine derived fluoride-substituted apatite.
J Mater Sci Mater Med. 2008 Jan;19(1):59-65. Epub 2007 Jun 19.
- Keller JM, Escara-Wilke JF, **Keller ET**.
Heat stress-induced heat shock protein 70 expression is dependent on ERK activation in zebrafish (*Danio rerio*) cells.
Comp Biochem Physiol A Mol Integr Physiol. 2008 Jul;150(3):307-14. Epub 2008 Apr 7.
- Havens AM, Pedersen EA, Shiozawa Y, Ying C, Jung Y, Sun Y, Neeley C, Wang J, Mehra R, **Keller ET**, McCauley LK, Loberg RD, Pienta KJ, Taichman RS.
An in vivo mouse model for human prostate cancer metastasis.
Neoplasia. 2008 Apr;10(4):371-80.
- Ignatoski KM, Escara-Wilke JF, Dai JL, Lui A, Dougall W, Daignault S, Yao Z, Zhang J, Day ML, Sargent EE, **Keller ET**.
RANKL inhibition is an effective adjuvant for docetaxel in a prostate cancer bone metastases model.
Prostate. 2008 Jun 1;68(8):820-9.
- Pettway GJ, Meganck JA, Koh AJ, **Keller ET**, Goldstein SA, McCauley LK.
Parathyroid hormone mediates bone growth through the regulation of osteoblast proliferation and differentiation.
Bone. 2008 Apr;42(4):806-18. Epub 2007 Dec 15.
- Hall CL, Dubyk CW, Riesenberger TA, Shein D, **Keller ET**, van Golen KL.
Type I collagen receptor (alpha2beta1) signaling promotes prostate cancer invasion through RhoC GTPase.
Neoplasia. 2008 Aug;10(8):797-803.
- Dai J, Hall CL, Escara-Wilke J, Mizokami A, Keller JM, **Keller ET**.
Prostate cancer induces bone metastasis through Wnt-induced bone morphogenetic protein-dependent and independent mechanisms.
Cancer Res. 2008 Jul 15;68(14):5785-94.
- Hall CL, Daignault SD, Shah RB, Pienta KJ, **Keller ET**.
Dickkopf-1 expression increases early in prostate cancer development and decreases during progression from primary tumor to metastasis.
Prostate. 2008 Sep 15;68(13):1396-404.
- Shannon FJ, Cottrell JM, Deng XH, Crowder KN, **Doty SB**, Avatrone MJ, Warren RF, Wright TM, Schwartz J.
A novel surface treatment for porous metallic implants that improves the rate of bony ongrowth.
J Biomed Mater Res A. 2008 Sep 15;86(4):857-64.

Selected ASBMR Citations of BIOQUANT OSTEO II Clientele 2008

- Moffat KL, Sun WH, Pena PE, Chahine NO, **Doty SB**, Ateshian GA, Hung CT, Lu HH. Characterization of the structure-function relationship at the ligament-to-bone interface. *Proc Natl Acad Sci U S A*. 2008 Jun 10;105(23):7947-52. Epub 2008 Jun 9.
- Spalazzi JP, Dagher E, **Doty SB**, Guo XE, Rodeo SA, Lu HH. In vivo evaluation of a multiphased scaffold designed for orthopaedic interface tissue engineering and soft tissue-to-bone integration. *J Biomed Mater Res A*. 2008 Jul;86(1):1-12.
- Boskey AL, **Doty SB**, Kudryashov V, Mayer-Kuckuk P, Roy R, Binderman I. Modulation of extracellular matrix protein phosphorylation alters mineralization in differentiating chick limb-bud mesenchymal cell micromass cultures. *Bone*. 2008 Jun;42(6):1061-71. Epub 2008 Feb 13.
- Chabane N, Zayed N, Afif H, Mfunu-Endam L, Benderdour M, **Boileau C**, Martel-Pelletier J, Pelletier JP, Duval N, Fahmi H. Histone deacetylase inhibitors suppress interleukin-1beta-induced nitric oxide and prostaglandin E(2) production in human chondrocytes. *Osteoarthritis Cartilage*. 2008 Apr 14.
- Martel-Pelletier J, **Boileau C**, Pelletier JP, Roughley PJ. Cartilage in normal and osteoarthritis conditions. *Best Pract Res Clin Rheumatol*. 2008 Apr;22(2):351-84. Review.
- Boileau C**, Tat SK, Pelletier JP, Cheng S, Martel-Pelletier J. Diacerein inhibits the synthesis of resorptive enzymes and reduces osteoclastic differentiation/survival in osteoarthritic subchondral bone: a possible mechanism for a protective effect against subchondral bone remodelling. *Arthritis Res Ther*. 2008;10(3):R71.
- Tardif G, Pelletier JP, **Boileau C**, Martel-Pelletier J. The BMP antagonists follistatin and gremlin in normal and early osteoarthritic cartilage: an immunohistochemical study. *Osteoarthritis Cartilage*. 2008 Aug 6.
- Roudier MP**, Morrissey C, True LD, Higano CS, Vessella RL, Ott SM. Histopathological assessment of prostate cancer bone osteoblastic metastases. *J Urol*. 2008 Sep;180(3):1154-60. Epub 2008 Jul 18.
- Miller RE, **Roudier M**, Jones J, Armstrong A, Canon J, Dougall WC. RANK ligand inhibition plus docetaxel improves survival and reduces tumor burden in a murine model of prostate cancer bone metastasis. *Mol Cancer Ther*. 2008 Jul;7(7):2160-9. Epub 2008 Jul 7.
- Morrissey C, True LD, **Roudier MP**, Coleman IM, Hawley S, Nelson PS, Coleman R, Wang YC, Corey E, Lange PH, Higano CS, Vessella RL. Differential expression of angiogenesis associated genes in prostate cancer bone, liver and lymph node metastases. *Clin Exp Metastasis*. 2008;25(4):377-88. Epub 2007 Oct 31.
- Zheng Y, Zhou H, Fong-Yee C, Modzelewski JR, Seibel MJ, **Dunstan CR**. Bone resorption increases tumour growth in a mouse model of osteosclerotic breast cancer metastasis. *Clin Exp Metastasis*. 2008;25(5):559-67. Epub 2008 Apr 18.
- McGee ME, Maki AJ, Johnson SE, Nelson OL, Robbins CT, **Donahue SW**. Decreased bone turnover with balanced resorption and formation prevent cortical bone loss during disuse (hibernation) in grizzly bears (*Ursus arctos horribilis*). *Bone*. 2008 Feb;42(2):396-404. Epub 2007 Oct 25.
- Yu XW, Xie XH, Yu ZF, **Tang TT**. Augmentation of screw fixation with injectable calcium sulfate bone cement in ovariectomized rats. *J Biomed Mater Res B Appl Biomater*. 2008 Aug 20.
- Kharode YP**, Sharp MC, Bodine PV. Utility of the ovariectomized rat as a model for human osteoporosis in drug discovery. *Methods Mol Biol*. 2008;455:111-24.
- Rissanen JP**, Suominen MI, Peng Z, Morko J, Rasi S, Risteli J, Halleen JM. Short-term changes in serum PINP predict long-term changes in trabecular bone in the rat ovariectomy model. *Calcif Tissue Int*. 2008 Feb;82(2):155-61. Epub 2008 Jan 25.
- Rissanen JP**, Suominen MI, Peng Z, Halleen JM. Secreted tartrate-resistant acid phosphatase 5b is a Marker of osteoclast number in human osteoclast cultures and the rat ovariectomy model. *Calcif Tissue Int*. 2008 Feb;82(2):108-15. Epub 2007 Dec 15.
- Phillips JA, Almeida EA, Hill EL, Aguirre JI, Rivera MF, Nachbandi I, Wronski TJ, van der Meulen MC, **Globus RK**. Role for beta1 integrins in cortical osteocytes during acute musculoskeletal disuse. *Matrix Biol*. 2008 Jun 20.
- Yun HC, **Branstetter JG**, Murray CK. Osteomyelitis in military personnel wounded in Iraq and Afghanistan. *J Trauma*. 2008 Feb;64(2 Suppl):S163-8; discussion S168.
- Stansbury LG, Lalliss SJ, **Branstetter JG**, Bagg MR, Holcomb JB. Amputations in U.S. military personnel in the current conflicts in Afghanistan and Iraq. *J Orthop Trauma*. 2008 Jan;22(1):43-6.
- Yingling VR**, Taylor G. Delayed pubertal development by hypothalamic suppression causes an increase in periosteal modeling but a reduction in bone strength in growing female rats. *Bone*. 2008 Jun;42(6):1137-43. Epub 2008 Feb 29.
- Elefteriou F**. Regulation of bone remodeling by the central and peripheral nervous system. *Arch Biochem Biophys*. 2008 May 15;473(2):231-6. Epub 2008 Mar 23. Review.

Selected ASBMR Citations of BIOQUANT OSTEO II Clientele 2008

- Mohan S, Reddick RL, Musi N, Horn DA, Yan B, Pihoda TJ, Natarajan M, **Abboud-Werner SL**. Diabetic eNOS knockout mice develop distinct macro- and microvascular complications. *Lab Invest*. 2008 May;88(5):515-28. Epub 2008 Apr 7.
- Wittrant Y, Gorin Y, Woodruff K, Horn D, Abboud HE, Mohan S, **Abboud-Werner SL**. High d(+)glucose concentration inhibits RANKL-induced osteoclastogenesis. *Bone*. 2008 Jun;42(6):1122-30. Epub 2008 Feb 29.
- Troyer DA, Tang Y, Bedolla R, Adhvaryu SG, Thompson IM, **Abboud-Werner S**, Sun LZ, Friedrichs WE, deGraffenried LA. Characterization of PacMetUT1, a recently isolated human prostate cancer cell line. *Prostate*. 2008 Jun 1;68(8):883-92.
- Wittrant Y, Bhandari BS, Abboud H, Benson N, Woodruff K, MacDougall M, **Abboud-Werner S**. PDGF up-regulates CSF-1 gene transcription in ameloblast-like cells. *J Dent Res*. 2008 Jan;87(1):33-8.
- Norowski PA Jr, **Bumgardner JD**. Biomaterial and antibiotic strategies for peri-implantitis: A review. *J Biomed Mater Res B Appl Biomater*. 2008 Aug 12. [Epub ahead of print]
- Greene AH, **Bumgardner JD**, Yang Y, Moseley J, Haggard WO. Chitosan-coated stainless steel screws for fixation in contaminated fractures. *Clin Orthop Relat Res*. 2008 Jul;466(7):1699-704. Epub 2008 Apr 29.
- Webb ND, McCanless JD, Courtney HS, **Bumgardner JD**, Haggard WO. Daptomycin eluted from calcium sulfate appears effective against *Staphylococcus*. *Clin Orthop Relat Res*. 2008 Jun;466(6):1383-7. Epub 2008 Apr 23.
- Noel SP, Courtney H, **Bumgardner JD**, Haggard WO. Chitosan films: a potential local drug delivery system for antibiotics. *Clin Orthop Relat Res*. 2008 Jun;466(6):1377-82. Epub 2008 Apr 18.
- Chesnutt BM, Viano AM, Yuan Y, Yang Y, Guda T, Appleford MR, Ong JL, Haggard WO, **Bumgardner JD**. Design and characterization of a novel chitosan/nanocrystalline calcium phosphate composite scaffold for bone regeneration. *J Biomed Mater Res A*. 2008 Feb 27. [Epub ahead of print]
- Cartner JL, Haggard WO, Ong JL, **Bumgardner JD**. Stress corrosion cracking of an aluminum alloy used in external fixation devices. *J Biomed Mater Res B Appl Biomater*. 2008 Aug;86B(2):430-7.
- Yuan Y, Chesnutt BM, Wright L, Haggard WO, **Bumgardner JD**. Mechanical property, degradation rate, and bone cell growth of chitosan coated titanium influenced by degree of deacetylation of chitosan. *J Biomed Mater Res B Appl Biomater*. 2008 Jul;86(1):245-52.
- Lin HY, Bowers B, Wolan JT, Cai Z, **Bumgardner JD**. Metallurgical, surface, and corrosion analysis of Ni-Cr dental casting alloys before and after porcelain firing. *Dent Mater*. 2008 Mar;24(3):378-85. Epub 2007 Aug 15.
- Havill LM**, Levine SM, Newman DE, Mahaney MC. Osteopenia and osteoporosis in adult baboons (*Papio hamadryas*). *J Med Primatol*. 2008 Jun;37(3):146-53.
- Compston J**, Reid DM, Boisdron J, Brandi ML, Burllet N, Cahall D, Delmas PD, Dere W, Devogelaer JP, Fitzpatrick LA, Flamion B, Goel N, Korte S, Laslop A, Mitrak B, Ormarsdottir S, Ringe J, Rizzoli R, Tsouderos Y, Van Staa T, Reginster JY. Recommendations for the registration of agents for prevention and treatment of glucocorticoid-induced osteoporosis: an update from the Group for the Respect of Ethics and Excellence in Science. *Osteoporos Int*. 2008 Sep;19(9):1247-50. Epub 2008 Jul 5.
- Sandini L, Pentti K, Tuppurainen M, **Kröger H**, Honkanen R. Agreement of self-reported estrogen use with prescription data: an analysis of women from the Kuopio Osteoporosis Risk Factor and Prevention Study. *Menopause*. 2008 Mar-Apr;15(2):282-9.
- Kärkkäinen M, Rikkinen T, **Kröger H**, Sirola J, Tuppurainen M, Salovaara K, Arokoski J, Jurvelin J, Honkanen R, Alhava E. Association between functional capacity tests and fractures: An eight-year prospective population-based cohort study. *Osteoporos Int*. 2008 Aug;19(8):1203-10. Epub 2008 Jan 31.
- Sirola J, Salovaara K, Tuppurainen M, Jurvelin JS, Alhava E, **Kröger H**. Sister's fracture history may be associated with perimenopausal bone fragility and modifies the predictability of fracture risk. *Osteoporos Int*. 2008 Jul 26.
- Sirola J, Rikkinen T, Tuppurainen M, Jurvelin JS, Alhava E, **Kröger H**. Grip Strength May Facilitate Fracture Prediction in Perimenopausal Women with Normal BMD: A 15-Year Population-Based Study. *Calcif Tissue Int*. 2008 Jul 19.
- Thian ES, Huang J, Ahmad Z, Edirisinghe MJ, Jayasinghe SN, **Ireland DC**, Brooks RA, Rushton N, Best SM, Bonfield W. Influence of nanohydroxyapatite patterns deposited by electrohydrodynamic spraying on osteoblast response. *J Biomed Mater Res A*. 2008 Apr;85(1):188-94.

Selected ASBMR Citations of BIOQUANT OSTEO II Clientele 2008

- San Thian E, Ahmad Z, Huang J, Edirisinghe MJ, Jayasinghe SN, **Ireland DC**, Brooks RA, Rushton N, Bonfield W, Best SM.
The role of electrosprayed apatite nanocrystals in guiding osteoblast behaviour.
Biomaterials. 2008 Apr;29(12):1833-43. Epub 2008 Feb 6.
- Venkatesan B, **Ghosh-Choudhury N**, Das F, Mahimainathan L, Kamat A, Kasinath BS, Abboud HE, Choudhury GG.
Resveratrol inhibits PDGF receptor mitogenic signaling in mesangial cells: role of PTP1B.
FASEB J. 2008 Jun 20. [Epub ahead of print]
- Das F, **Ghosh-Choudhury N**, Mahimainathan L, Venkatesan B, Feliars D, Riley DJ, Kasinath BS, Choudhury GG.
Raptor-ricor axis in TGFbeta-induced protein synthesis.
Cell Signal. 2008 Feb;20(2):409-23. Epub 2007 Nov 7.
- Das F, **Ghosh-Choudhury N**, Venkatesan B, Li X, Mahimainathan L, Choudhury GG.
Akt kinase targets association of CBP with SMAD 3 to regulate TGFbeta-induced expression of plasminogen activator inhibitor-1.
J Cell Physiol. 2008 Feb;214(2):513-27.
- Li ZG, Mathew P, Yang J, **Starbuck MW**, Zurita AJ, Liu J, Sikes C, Multani AS, Efstathiou E, Lopez A, Wang J, Fanning TV, Prieto VG, Kundra V, Vazquez ES, Troncoso P, Raymond AK, Logothetis CJ, Lin SH, Maity S, Navone NM.
Androgen receptor-negative human prostate cancer cells induce osteogenesis in mice through FGF9-mediated mechanisms.
J Clin Invest. 2008 Aug 1;118(8):2697-2710.
- Naidu A, **Dechow PC**, Spears R, Wright JM, Kessler HP, Opperman LA.
The effects of bisphosphonates on osteoblasts in vitro.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2008 Jul;106(1):829-37. Epub 2008 May 27.
- Vaira S, Alhawagri M, Anwisyte I, Kitaura H, Faccio R, **Novack DV**.
RelA/p65 promotes osteoclast differentiation by blocking a RANKL-induced apoptotic JNK pathway in mice.
J Clin Invest. 2008 Jun;118(6):2088-97.
- Ramanadham S, Yarasheski KE, Silva MJ, Wohltmann M, **Novack DV**, Christiansen B, Tu X, Zhang S, Lei X, Turk J.
Age-related changes in bone morphology are accelerated in group VIA phospholipase A2 (iPLA2beta)-null mice.
Am J Pathol. 2008 Apr;172(4):868-81. Epub 2008 Mar 18.
- Vaira S, Johnson T, Hirbe AC, Alhawagri M, Anwisyte I, Sammut B, O'Neal J, Zou W, Weilbaecher KN, Faccio R, **Novack DV**.
RelB is the NF-kappaB subunit downstream of NIK responsible for osteoclast differentiation.
Proc Natl Acad Sci U S A. 2008 Mar 11;105(10):3897-902. Epub 2008 Mar 5.
- Novack DV**, Teitelbaum SL.
The osteoclast: friend or foe?
Annu Rev Pathol. 2008;3:457-84. Review.
- Granot-Attas S, **Elson A**.
Protein tyrosine phosphatases in osteoclast differentiation, adhesion, and bone resorption.
Eur J Cell Biol. 2008 Sep;87(8-9):479-90. Epub 2008 Mar 14.
- Hendriks WJ, **Elson A**, Harroch S, Stoker AW.
Protein tyrosine phosphatases: functional inferences from mouse models and human diseases.
FEBS J. 2008 Mar;275(5):816-30. Review.
- Berman-Golan D, Granot-Attas S, **Elson A**.
Protein tyrosine phosphatase epsilon and Neu-induced mammary tumorigenesis.
Cancer Metastasis Rev. 2008 Jun;27(2):193-203. Review.
- Kraut-Cohen J, Muller WJ, **Elson A**.
Protein-tyrosine phosphatase epsilon regulates Shc signaling in a kinase-specific manner: increasing coherence in tyrosine phosphatase signaling.
J Biol Chem. 2008 Feb 22;283(8):4612-21. Epub 2007 Dec 19.
- Mohammad KS**, Chirgwin JM, Guise TA.
Assessing new bone formation in neonatal calvarial organ cultures.
Methods Mol Biol. 2008;455:37-50.
- Ory S, Brazier H, Pawlak G, **Blangy A**.
Rho GTPases in osteoclasts: Orchestrators of podosome arrangement.
Eur J Cell Biol. 2008 Sep;87(8-9):469-77. Epub 2008 Apr 23.
- Fortier M, Comunale F, Kucharczak J, **Blangy A**, Charrasse S, Gauthier-Rouvière C.
RhoE controls myoblast alignment prior fusion through RhoA and ROCK.
Cell Death Differ. 2008 Aug;15(8):1221-31. Epub 2008 Mar 28.
- Duque G**, Troen BR.
Understanding the mechanisms of senile osteoporosis: new facts for a major geriatric syndrome.
J Am Geriatr Soc. 2008 May;56(5):935-41. Review.
- Duque G**.
Intravenous zoledronic acid reduced new clinical fractures and deaths in patients who had recent surgery for hip fracture.
ACP J Club. 2008 Mar-Apr;148(2):40.
- Duque G**.
Bone and fat connection in aging bone.
Curr Opin Rheumatol. 2008 Jul;20(4):429-34. Review.
- Diab T, **Allen MR**, **Burr DB**.
Alendronate treatment results in similar levels of trabecular bone remodeling in the femoral neck and vertebra.
Osteoporos Int. 2008 Aug 21.
- Recker RR**, Delmas PD, Halse J, Reid IR, Boonen S, García-Hernandez PA, Supronik J, Lewiecki EM, Ochoa L, Miller P, Hu H, Mesenbrink P, Hartl F, Gasser J, Eriksen EF.
Effects of intravenous zoledronic acid once yearly on bone remodeling and bone structure.
J Bone Miner Res. 2008 Jan;23(1):6-16.