

**CENTER FOR METABOLIC BONE DISEASE
JOURNAL CLUB: BONE AND CARTILAGE: BIOLOGY AND DISEASE**

The CMBD Journal Club meets on the first Thursday of every month in the West Pavilion Conference Center (4:30-5:30 pm). Discussions include one basic and one clinical article.

2008	
Programs Subject to Change	
01-03-08	<p>Basic Research Article: Heather M. McDonald, PhD Vitovski S, Phillips JS, Sayers J, Croucher PI. Investigating the Interaction between Osteoprotegerin and Receptor Activator of NF-κB or Tumor Necrosis Factor-related Apoptosis-inducing Ligand. <i>J Biol Chem</i> 2007;282:31601-31609.</p> <p>Clinical Research Article: Kenneth G. Saag, MD, MSc Mackey DC, Lui LY, Cawthon PM, Bauer DC, Nevitt MC, Cauley JA, <i>et al.</i> High-Trauma Fractures and Low Bone Mineral Density in Older Women and Men. <i>JAMA</i> 2007;298:2381-2388.</p>
02-07-08	<p>Basic Research Article: Joseph P. Ritchie Clinical Research Article: Elizabeth L. Perkins, MD <i>Articles:</i> To be determined</p>
03-20-08	<p>Basic Research Article: Jason W. Ashley Clinical Research Article: Christina V. Oleson, MD <i>Articles:</i> To be determined</p>
04-03-08	<p>Basic Research Article: Majd Zayzafoon, MD, PhD Clinical Research Article: Bitu Shakoory, MD <i>Articles:</i> To be determined</p>
05-01-08	<p>Basic Research Article: Ryan C. Riddle, PhD Clinical Research Article: Shawn R. Gilbert, MD <i>Articles:</i> To be determined</p>
06-05-08	<p>Basic Research Article: Amjad Javed, PhD Clinical Research Article: Elizabeth M. Kitchin, BS, MS, RD <i>Articles:</i> To be determined</p>
09-18-08	<i>Speakers to be announced</i>
10-16-08	<i>Speakers to be announced</i>
11-20-08	<i>Speakers to be announced</i>
12-04-08	<i>Speakers to be announced</i>
2007	
Programs Subject to Change	
01-04-07	<p>Basic Research Article: April Adams Szafran Kawane K, Ohtani M, Miwa K, Kizawa T, <i>et al.</i> Chronic polyarthritis caused by mammalian DNA that escapes from degradation in macrophages. <i>Nature</i> 2006;443:998-1002.</p> <p>Clinical Research Article: Maria I. Danila, MD, MS De Nijs RNJ, Jacobs JWG, Lems WF, Laan RFJ, <i>et al.</i> Alendronate or Alfacalcidol in Glucocorticoid-Induced Osteoporosis. <i>N Engl J Med</i> 2006;355:675-684.</p>
02-01-07	<p>Basic Research Article: Anthony J. Siccardi III, PhD Iqbal J, Sun L, Kumar TR, Blair HC, Zaidi M. Follicle-stimulating hormone stimulates TNF production from immune cells to enhance osteoblast and osteoclast formation. <i>Proc Natl Acad Sci USA</i> 2006;103:14925-14930.</p> <p>Clinical Research Article: Allyson K. McDonough, MD De Benedetti F, Rucci N, Del Fattore A, Peruzzi B, Paro R, <i>et al.</i> Impaired Skeletal Development in Interleukin-6-Transgenic Mice: A Model for the Impact of Chronic Inflammation on the Growing Skeletal System. <i>Arthritis Rheum</i> 2006;54:3551-3563.</p>

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03-01-07	<p>Basic Research Article: Majd Zayzafoon, MD, PhD Sato K, Suematsu A, Nakashima T, Takemoto-Kimura S, <i>et al.</i> Regulation of osteoclast differentiation and function by the CaMK-CREB pathway. <i>Nat Med</i> 2006;12:1410-1416.</p> <p>Clinical Research Article(s): Kenneth G. Saag, MD, MSc Richards JB, Papaioannou A, Adachi JD, Joseph L, <i>et al.</i> Effect of Selective Serotonin Reuptake Inhibitors on the Risk of Fracture. <i>Arch Intern Med</i> 2007;167:188-194.</p> <p>Yang Y, Lewis JD, Epstein S, Metz DC. Long-term Proton Pump Inhibitor Therapy and Risk of Hip Fracture. <i>JAMA</i> 2006;296:2947-2953.</p>
04-05-07	<p>Basic Research Article: Hui Wu, PhD Diarra D, Stolina M, Polzer K, Zwerina J, <i>et al.</i> Dickkopf-1 is a master regulator of joint remodeling. <i>Nat Med</i> 2007;13:156-163.</p> <p>Clinical Research Article: Shawn R. Gilbert, MD Schwartz AV, Sellmeyer DE, Vittinghoff E, Palermo L, <i>et al.</i>, for the Health, Aging and Body Composition (Health ABC) Study. Thiazolidinedione Use and Bone Loss in Older Diabetic Adults. <i>J Clin Endocrinol Metab</i> 2006;91:3349-3354.</p>
05-03-07	<p>Basic Research Article: Melissa A. Talbert Saita Y, Takagi T, Kitahara K, Usui M, <i>et al.</i> Lack of <i>Schnurri-2</i> Expression Associates with Reduced Bone Remodeling and Osteopenia. <i>J Biol Chem</i> 2007;282:12907-12915.</p> <p>Clinical Research Article: Donald H. Lein, MS, PT Kato T, Terashima T, Yamashita T, Hatanaka Y. Effect of low-repetition jump training on bone mineral density in young women. <i>J Appl Physiol</i> 2006;100:839-843.</p>
06-07-07	<p>Basic Research Article: Heather M. McDonald, PhD Carter PH, Liu R-Q, Foster WR, Tamasi JA, <i>et al.</i> Discovery of a small molecule antagonist of the parathyroid hormone receptor by using an N-terminal parathyroid hormone peptide probe. <i>Proc Natl Acad Sci USA</i> 2007;104:6846-6851.</p>
09-06-07	<p>Basic Research Article: Alan W. Eberhardt, PhD Turner CH. Biomechanics of Bone: Determinants of Skeletal Fragility and Bone Quality. <i>Osteoporos Int</i> 2002;13:97-104.</p> <p>Clinical Research Article: Robert R. Lopez, MD Callstrom MR, Atwell TD, Charboneau JW, Farrell MA, <i>et al.</i> Painful Metastases Involving Bone: Percutaneous Image-guided Cryoablation—Prospective Trial Interim Analysis. <i>Radiology</i> 2006;241:572-580.</p>
10-18-07	<p>Basic Research Article: Douglas J. DiGirolamo Lee NK, Sowa H, Hinoi E, Ferron M, <i>et al.</i> Endocrine Regulation of Energy Metabolism by the Skeleton. <i>Cell</i> 2007;130:456-469.</p> <p>Clinical Research Article: Sarah L. Morgan, MD, RD, FADA, FACP Marini H, Minutoli L, Polito F, Bitto A, <i>et al.</i> Effects of the Phytoestrogen Genistein on Bone Metabolism in Osteopenic Postmenopausal Women. <i>Ann Intern Med</i> 2007;146:839-847.</p>
11-01-07	<p>Basic Research Article: Hui Wu, PhD Nakamura T, Imai Y, Matsumoto T, Sato S, <i>et al.</i> Estrogen Prevents Bone Loss via Estrogen Receptor α and Induction of Fas Ligand in Osteoclasts. <i>Cell</i> 2007;130:811-823.</p> <p>Clinical Research Article: Amy H. Warriner, MD Lyles KW, Colón-Emeric CS, Magaziner JS, Adachi JD, <i>et al.</i> Zoledronic Acid and Clinical Fractures and Mortality after Hip Fracture. <i>NewEngl J Med</i> 2007;357:[Epub ahead of print].</p>

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12-06-07	<p>Basic Research Article: Anthony J. Siccardi, PhD Sampath TK, Simic P, Sendak R, Draca N, <i>et al.</i> Thyroid-Stimulating Hormone Restores Bone Volume, Microarchitecture, and Strength in Aged Ovariectomized Rats. <i>J Bone Miner Res</i> 2007;22:849-859.</p> <p>Clinical Research Article: Song Zang, MD Balooch G, Yao W, Ager JW, Balooch M, <i>et al.</i> The Aminobisphosphonate Risedronate Preserves Localized Mineral and Material Properties of Bone in the Presence of Glucocorticoids. <i>Arthritis Rheum</i> 2007;56:3726-3737.</p>
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2006	
01-05-06	<p>Basic Research Article: Carrie A. Elzie Schroeder TM, Westendorf JJ. Histone Deacetylase Inhibitors Promote Osteoblast Maturation. <i>J Bone Miner Res</i> 2005;20:2254-2263.</p> <p>Clinical Research Article: Shawn R. Gilbert, MD Govender S, Csimma C, Genant HK, Valentin-Opran A. Recombinant Human Bone Morphogenetic Protein-2 for Treatment of Open Tibial Fractures: A Prospective, Controlled, Randomized Study of Four Hundred and Fifty Patients. <i>J Bone Joint Surg Am</i> 2002;84:2123-2134.</p>
02-02-06	<p>Basic Research Article: Alan W. Eberhardt, PhD Silva MJ, Brodt MD, Hucker WJ. Estimating Endocortical Strain During Three-Point Bending in SAMP6 Osteoporotic Mice. <i>Anat Rec A</i> 2005;283A:380-390.</p> <p>Clinical Research Article: Jeffrey D. Faggard, MD Grant AM, Avenell A, Campbell MK, McDonald AM, <i>et al.</i> Oral vitamin D3 and calcium for secondary prevention of low-trauma fractures in elderly people (Randomised Evaluation of Calcium Or vitamin D, RECORD): a randomised placebo-controlled trial. <i>Lancet</i> 2005;365:1621-1628.</p>
03-02-06	<p>Basic Research Article: Majd Zayzafoon, MD, PhD Dayer R, Rizzoli R, Kaelin A, Ammann P. Low Protein Intake Is Associated With Impaired Titanium Implant Osseointegration. <i>J Bone Miner Res</i> 2006;21:258-264.</p> <p>Clinical Research Article: Gregory Batson, MD Jackson RD, LaCroix AZ, Gass M, Wallace RB, <i>et al.</i> Calcium plus Vitamin D Supplementation and the Risk of Fractures. <i>N Engl J Med</i> 2006;354:669-683.</p>
04-06-06	<p>Basic Research Article: Emily Duff, Licensing Associate; W. S. (Sandy) White, CEO, The UAB Research Foundation “Why Should I Care? Case-Studies on University Intellectual Property”</p> <p>Clinical Research Article: Monica Adams, MD McClung MR, Lewiecki EM, Cohen SB, Bolognese MA, <i>et al.</i> Denosumab in Postmenopausal Women with Low Bone Mineral Density. <i>N Engl J Med</i> 2006;354:821-831.</p>
05-04-06	<p>Basic Research Article: Hui Wu, PhD Liu PT, Stenger S, Li H, Wenzel L, <i>et al.</i> Toll-Like Receptor Triggering of a Vitamin D-Mediated Human Antimicrobial Response. <i>Science</i> 2006;311:1770-1773.</p> <p>Clinical Research Article: Angelo Gaffo, MD Giovannucci E, Liu Y, Rimm EB, Hollis BW, <i>et al.</i> Prospective Study of Predictors of Vitamin D Status and Cancer Incidence and Mortality in Men. <i>J Natl Cancer Inst</i> 2006;98:451-459.</p>
06-01-06	<p>Basic Research Article: Derrick R. Dean, PhD Thomas V, Jagani S, Johnson K, Jose MV, Dean DR, Vohra YK, Nyairo E. Electrospun Bioactive Nanocomposite Scaffolds of Polycaprolactone and Nanohydroxyapatite for Bone Tissue Engineering. <i>J Nanosci Nanotechnol</i> 2006;6:487-493.</p> <p>Clinical Research Article: Amy Warriner, MD Wuttke W, Gorkow C, Seidlová-Wuttke D. Effects of black cohosh (<i>Cimicifuga racemosa</i>) on bone turnover, vaginal mucosa, and various blood parameters in postmenopausal women: A double-blind, placebo-controlled, and conjugated estrogens-controlled study. <i>Menopause</i> 2006;13:185-196.</p>

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09-07-06	<p>Basic Research Article: Amjad Javed, PhD Gersbach CA, Le Doux JM, Guldberg RE, Garcia AJ. Inducible regulation of Runx2-stimulated osteogenesis. <i>Gene Therapy</i> 2006;13:873-882.</p> <p>Clinical Research Articles: Jeffrey R. Curtis, MD, MPH Siris ES, Harris ST, Rosen CJ, Barr CE, <i>et al.</i> Adherence to Bisphosphonate Therapy and Fracture Rates in Osteoporotic Women: Relationship to Vertebral and Nonvertebral Fractures From 2 US Claims Databases. <i>Mayo Clin Proc</i> 2006;81(8):1013-1022.</p> <p>Siris ES, Brenneman SK, Barrett-Connor E, Miller PD, <i>et al.</i> The effect of age and bone mineral density on the absolute, excess, and relative risk of fracture in postmenopausal women aged 50-99: results from the National Osteoporosis Risk Assessment (NORA). <i>Osteoporos Int</i> 2006;17:565-574</p>
10-05-06	<p>Basic Research Article: Douglas J. DiGirolamo Windahl SH, Galien R, Chiusaroli R, Clément-Lacroix P, <i>et al.</i> Bone protection by estrens occurs through non-tissue-selective activation of the androgen receptor. <i>J Clin Invest</i> 2006;116:2500-2509.</p> <p>Clinical Research Article: Elizabeth M. Kitchin, BS, MS, RD Lin PH, Ginty F, Appel LJ, Aickin M, <i>et al.</i> The DASH Diet and Sodium Reduction Improve Markers of Bone Turnover and Calcium Metabolism in Adults. <i>J Nutr</i> 2006;133:3130-3136.</p>
11-02-06	<p>Basic Research Article: Girish Ramaswamy Balooch G, Balooch M, Nalla RK, Schilling S, <i>et al.</i> TGF-β regulates the mechanical properties and composition of bone matrix. <i>PNAS</i> 2005;102:18813-18818.</p> <p>Clinical Research Article: Gim Gee Teng, MD van Staa TP, Geusens P, Bijlsma JWJ, Leufkens HGM, Cooper C. Clinical Assessment of the Long-Term Risk of Fracture in Patients With Rheumatoid Arthritis. <i>Arthritis Rheum</i> 2006;54:3104-3112.</p>
12-07-06	<p>Basic Research Article: N. Robert Estes II, PhD Liao J, Schneider A, Datta NS, McCauley LK. Extracellular Calcium as a Candidate Mediator of Prostate Cancer Skeletal Metastasis. <i>Cancer Res</i> 2006;66:9065-9073.</p> <p>Special Clinical Topic: Robert W. Hardy, PhD Is Procollagen Type 1 N-Terminal Propeptide (P1NP) an Effective Marker for Monitoring Response to Antiresorptive Medications?"</p>
2005	
01-06-05	<p>Basic Research Article: Gene P. Siegal, MD, PhD Porter DE, Lonie L, Fraser M, Dobson-Stone C, <i>et al.</i> Severity of disease and risk of malignant change in hereditary multiple exostoses. A genotype-phenotype study. <i>J Bone Joint Surg Br</i> 2004;86:1041-1046.</p> <p>Clinical Research Article: Robert W. Hardy, PhD Hollis BW. Comparison of commercially available ¹²⁵I-based RIA methods for the determination of circulating 25-hydroxyvitamin D. <i>Clin Chem</i> 2000;46:1657-1661.</p>
02-03-05	<p>Basic Research Article: Carrie A. Elzie, BS Miura M, Chen X-D, Allen MR, Bi Y, <i>et al.</i> A crucial role of caspase-3 in osteogenic differentiation of bone marrow stromal stem cells. <i>J Clin Invest</i> 2004;114:1704-1713.</p> <p>Clinical Research Article: Sarah L. Sampsel, MPH Solomon DH, Brookhart MA, Gandhi TK, Karson A, <i>et al.</i> Adherence with osteoporosis practice guidelines: A multilevel analysis of patient, physician, and practice setting characteristics. <i>Am J Med</i> 2004;117:919-924.</p>
03-03-05	<p>CASE DISCUSSION – 3:30-5:30 pm Coordinator: Eric S. Albright, MD Guest: Nelson B. Watts, MD Director, University of Cincinnati Bone Health and Osteoporosis Center</p>

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04-07-05	<p>Basic Research Article: Michael J. Teale, PhD Corey E, Brown LG, Kiefer JA, Quinn JE, <i>et al.</i> Osteoprotegerin in Prostate Cancer Bone Metastasis. <i>Cancer Res</i> 2005;65:1710-1718.</p> <p>Clinical Research Article: Jeffrey R. Curtis, MD, MPH Nordin BEC, Need AG, Morris HA, O'Loughlin PD, Horowitz M. Effect of age on calcium absorption in postmenopausal women. <i>Am J Clin Nutr</i> 2004;80:998-1002.</p> <p>Smith E, Need AG, Schultz CG, Horowitz M. Does the response of bone mass to calcium supplements depend on calcium absorption efficiency? <i>Eur J Endocrinol</i> 2004;151:759-763.</p>
05-05-05	<p>Basic Research Article: Ji-Ben Peng, PhD Hoenderop JG, van Leeuwen JP, van der Eerden BC, Kersten FF, <i>et al.</i> Renal Ca²⁺ wasting, hyperabsorption, and reduced bone thickness in mice lacking TRPV5. <i>J Clin Invest</i> 2003;112:1906-1914.</p> <p>Clinical Research Article: Joel D. Abbott, MD Bauer DC, Black DM, Garnero P, Hochberg M, <i>et al.</i> Change in Bone Turnover and Hip, Non-Spine, and Vertebral Fracture in Alendronate-Treated Women: The Fracture Intervention Trial. <i>J Bone Miner Res</i> 2004;19:1250-1258.</p>
06-02-05	<p>Basic Research Article: Xu Feng, PhD Wei S, Kitaura H, Zhou P, Ross FP, Teitelbaum SL. IL-1 mediates TNF-induced osteoclastogenesis. <i>J Clin Invest</i> 2005;115:282-290.</p> <p>Clinical Research Article: Kenneth G. Saag, MD, MPH Kasperk C, Hillmeier J, Nöldge G, Grafe IA, <i>et al.</i> Treatment of Painful Vertebral Fractures by Kyphoplasty in Patients With Primary Osteoporosis: A Prospective Nonrandomized Controlled Study. <i>J Bone Miner Res</i> 2005;20:604-612.</p>
09-01-05	<p>Basic Research Article: April Adams Kelly T, Suva LJ, Huang Y, MacLeod V, <i>et al.</i> Expression of Heparanase by Primary Breast Tumors Promotes Bone Resorption in the Absence of Detectable Bone Metastases. <i>Cancer Res</i> 2005; 65:5778-5784.</p> <p>Clinical Research Article: Sarah L. Morgan, MD, RD, FADA, FACP Ruggiero SL, Mehrotra B, Rosenberg TJ, Engroff SL. Osteonecrosis of the Jaws Associated With the Use of Bisphosphonates: A Review of 63 Cases. <i>J Oral Maxillofac Surg</i> 2004; 62:527-534.</p>
10-06-05	<p>Basic Research Article: Stephanie Cowey, PhD Lynch CC, Hikosaka A, Acuff HB, Martin MD, <i>et al.</i> MMP-7 promotes prostate cancer-induced osteolysis via the solubilization of RANKL. <i>Cancer Cell</i> 2005;7:485-496.</p> <p>Clinical Research Article: Gim Gee Teng, MD Cosman F, Nieves J, Zion M, Woelfert L, Luckey M, Lindsay R. Daily and Cyclic Parathyroid Hormone in Women Receiving Alendronate. <i>N Engl J Med</i> 2005;353:566-575.</p>
11-03-05	<p>Basic Research Article: Katri Selander, MD, PhD Miwa S, Mizokami A, Keller ET, Taichman R, <i>et al.</i> The Bisphosphonate YM529 Inhibits Osteolytic and Osteoblastic Changes and CXCR-4-Induced Invasion in Prostate Cancer. <i>Cancer Res</i> 2005;65:8818-8825.</p> <p>Clinical Research Article: Steven M. Theiss, MD Lai KA, Shen WJ, Yang CY, Shao CJ, <i>et al.</i> The Use of Alendronate to Prevent Early Collapse of the Femoral Head in Patients with Nontraumatic Osteonecrosis. <i>J Bone Joint Surg Am</i> 2005;87-A:2155-2159.</p>

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12-01-05	<p>Basic Research Article: Amber A. Sawyer Schantz JT, Brandwood A, Hutmacher DW, Khor HL, Bittner K. Osteogenic differentiation of mesenchymal progenitor cells in computer designed fibrin-polymer-ceramic scaffolds manufactured by fused deposition modeling. <i>J Mater Sci Mater Med</i> 2005;16:807-819.</p> <p>Clinical Research Article: Sumapa Chaiamnuay, MD Tankó LB, Christiansen C, Cox DA, Geiger MJ, McNabb MA, Cummings SR. Relationship Between Osteoporosis and Cardiovascular Disease in Postmenopausal Women. <i>J Bone Miner Res</i> 2005;20:1912-1920.</p>
2004	
01-08-04	<p>Basic Research Article: Jeff Crews Eghbali-Fatourehchi G, Khosla S, Sanyal A, <i>et al.</i> Role of RANK ligand in mediating increased bone resorption in early postmenopausal women. <i>J Clin Invest</i> 2003;111:1221-1230.</p> <p>Clinical Research Article: Sarah L. Morgan, MD, RD, FADA, FACP Diamond TH, Champion B, Clark WA. Management of Acute Osteoporotic Vertebral Fractures: A Nonrandomized Trial Comparing Percutaneous Vertebroplasty with Conservative Therapy. <i>Am J Med</i> 2003;114:257-265.</p>
02-05-04	<p>Basic Research Article: Carrie A. Elzie Faccio R, Novack DV, Zallone A, Ross FP, Teitelbaum SL. Dynamic changes in the osteoclast cytoskeleton in response to growth factors and cell attachment are controlled by $\beta 3$ integrin. <i>J Cell Biol</i> 2003;162:499-509.</p> <p>Clinical Research Article: Eric S. Albright, MD Rescheduled for 04-01-04</p>
03-04-04	<p>Special Speaker: Joseph A. Lorenzo, MD, Professor of Medicine, Division of Endocrinology, University of Connecticut Health Center Title: Role of B-Lymphopoiesis in Osteoclastogenesis</p>
04-01-04	<p>Basic Research Presentation: Valerie Meyers The Effects of Modeled Microgravity on Osteoblastogenesis</p> <p>Clinical Research Article: Eric S. Albright, MD Schwartz AV, Sellmeyer DE, Ensrud KE, Cauley JA, <i>et al.</i> Older women with diabetes have an increased risk of fracture: a prospective study. <i>J Clin Endocrinol Metab</i> 2001;86:32-38.</p>
05-06-04	<p>Special Speaker: Karen Lyons, PhD, Associate Professor of Orthopaedic Surgery, Biological Chemistry, and Molecular, Cell & Developmental Biology, UCLA Title: Coordination of Growth Plate Morphogenesis by BMP and FGF Signaling Pathways</p>
06-03-04	<p>Basic Research Article: Stephanie L. Cowey, PhD Morgan H, Tumber A, Hill PA. Breast cancer cells induce osteoclast formation by stimulating host IL-11 production and downregulating granulocyte/macrophage colony-stimulating factor. <i>Int J Cancer</i> 2004;109:653-660.</p> <p>Clinical Research Article: Thomas G. Wimmer, MD Bone HG, Hosking D, Devogelaer J-P, Tucci JR, <i>et al.</i> Ten years' experience with alendronate for osteoporosis in postmenopausal women. <i>N Engl J Med</i> 2004;350:1189-1199.</p>
09-16-04	UAB CAMPUS CLOSED – Meeting canceled.
10-07-04	<p>Basic Research Article: Selvarangan Ponnazhagan, PhD Yang S-Y, Wu B, Mayton L, Mukherjee P, <i>et al.</i> Protective effects of IL-1Ra or vIL-10 gene transfer on a murine model of wear debris-induced osteolysis. <i>Gene Ther</i> 2004;11:483-491.</p> <p>Clinical Research Article: Keivan Dehghanpisheh, MD, PhD Akune T, Ohba S, Kamekura S, Yamaguchi M, <i>et al.</i> PPARγ insufficiency enhances osteogenesis through osteoblast formation from bone marrow progenitors. <i>J Clin Invest</i> 2004;113:846-855.</p>

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11-04-04	<p>Basic Research Article: Amber A. Sawyer Reyes CD, Garcia AJ. $\alpha_2\beta_1$ Integrin-specific collagen-mimetic surfaces supporting osteoblastic differentiation. <i>J Biomed Mater Res</i> 2004;69A:591-600.</p> <p>Clinical Research Article: Henry B. Townsend, MD Schlienger RG, Kraenzlin ME, Jick SS, Meier CR. Use of β-blockers and risk of fractures. <i>JAMA</i> 2004;292:1326-1332.</p>
12-02-04	<p>Basic Research Article: Aditi Mukherjee Dacquin R, Davey RA, Laplace C, Levasseur R, <i>et al.</i> Amylin inhibits bone resorption while the calcitonin receptor controls bone formation <i>in vivo</i>. <i>J Cell Biol</i> 2004;164:509-514.</p> <p>Clinical Research Article: Michael J. Klein, MD Oliveira AM, Perez-Atayde AR, Inwards CY, Medeiros F, <i>et al.</i> <i>USP6</i> and <i>CDH11</i> oncogenes identify the neoplastic cell in primary aneurysmal bone cysts and are absent in so-called secondary aneurysmal bone cysts. <i>Am J Pathol</i> 2004;165:1773-1780.</p>
2003	
01-09-03	<p>Special Speaker: Nelson B. Watts, MD, Professor of Medicine and Director, Osteoporosis Center, University of Cincinnati Medical Center <i>Title:</i> The Ethics of Placebo Control Trials for Osteoporosis Therapy</p>
02-06-03	<p>Basic Research Article: Xu Cao, PhD Borton, A, Frederick J, Datto M, Wang X-F, Weinstein R. The loss of Smad3 results in a lower rate of bone formation and osteopenia through dysregulation of osteoblast differentiation and apoptosis. <i>J Bone Miner Res</i> 2001;16:1754-1764.</p> <p>Clinical Research Article: Sarah L. Morgan, MD, RD, FADA, FACP Shiomi S, Nishiguchi S, Kubo S, Tamori A, <i>et al.</i> Vitamin K₂ (Menatetrenone) for bone loss in patients with cirrhosis of the liver. <i>Am J Gastroenterol</i> 2002;97:978-981.</p>
03-06-03	<p>Special Speaker: J. Edward Puzas, PhD, Donald and Mary Clark Professor of Orthopaedics, University of Rochester School of Medicine and Dentistry <i>Title:</i> Molecular Methods Identify Novel Regulators of Osteoblast Function: Possible Targets for the Treatment of Osteoporosis</p>
04-03-03	<p>Basic Research Articles: John D. Mountz, MD, PhD Palomba S, Numis FG, Mossetti G, Rendina D, <i>et al.</i> Effectiveness of alendronate treatment in postmenopausal women with osteoporosis: relationship with Bsm1 vitamin D receptor genotypes. <i>Clin Endocrinol</i> 2003;58:365-371. Shimizu M, Higuchi K, Kasai S, Tsuboyama T, <i>et al.</i> A congenic mouse and candidate gene at the Chromosome 13 locus regulating bone density. <i>Mamm Genome</i> 2002;13:335-340.</p> <p>Clinical Research Articles: Jeffrey R. Curtis, MD. Body J-J, Gaich GA, Scheele WH, Kulkarni PM, <i>et al.</i> A randomized double-blind trial to compare the efficacy of teriparatide [recombinant human parathyroid hormone (1-34)]. <i>J Clin Endocrinol Metab</i> 2002;87:4528-4535. Marcus R, Wang O, Satterwhite, J, Mitlak B. The skeletal response to teriparatide is largely independent of age, initial bone mineral density, and prevalent vertebral fractures in postmenopausal women with osteoporosis. <i>J Bone Miner Res</i> 2003;18:18-23. Orwoll ES, Scheele WH, Paul S, Adami S, <i>et al.</i> The effect of teriparatide [human parathyroid hormone (1-34)] therapy on bone density in men with osteoporosis. <i>J Bone Miner Res</i> 2003;18:9-17.</p>
05-01-03	<p>Special Speaker: Robert W. Downs, Jr., MD, Professor of Medicine, Virginia Commonwealth University School of Medicine <i>Title:</i> Paget's Disease and Fibrous Dysplasia</p>
06-05-03	<p>Basic Research Article: Amanda T. Boyce, PhD Settle SH Jr, Rountree RB, Sinha A, Thacker A, Higgins K, Kingsley DM. Multiple joint and skeletal patterning defects caused by single and double mutations in the mouse <i>Gdf6</i> and <i>Gdf5</i> genes. <i>Dev Biol</i> 2003;254:116-130.</p> <p>Clinical Research Article: Elizabeth M. Kitchin, BS, MS, RD</p>

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	Jensen C, Holloway L, Block G, Spiller G, Gildengorin G, Gunderson E, Butterfield G, Marcus R. Long-term effects of nutrient intervention on markers of bone remodeling and calciotropic hormones in late-postmenopausal women. <i>Am J Clin Nutr</i> 2002;75:1114-1120.
09-04-03	Basic Research Article: Gene P. Siegal, MD, PhD Corsi A, Collins MT, Riminucci M, Howell PGT, <i>et al.</i> Osteomalacic and Hyperparathyroid Changes in Fibrous Dysplasia of Bone: Core Biopsy Studies and Clinical Correlations. <i>JBMR</i> 2003;18:1235-1246. Clinical Research Article: Kenneth G. Saag, MD, MSc Whyte MP, Wenkert D, Clements KL, McAlister WH, Mumm S. Bisphosphonate-Induced Osteopetrosis. <i>N Engl J Med</i> 2003;349:457-463.
10-02-03	Special Speaker: Robert S. Weinstein, MD, Professor of Medicine, Director, Bone Histomorphometry Laboratory, University of Arkansas for Medical Sciences <i>Title:</i> Glucocorticoid Action in Bone
11-06-03	Basic Research Article: Jay M. McDonald, MD Abe E, Marians RC, Yu W, Wu XB, Ando T, <i>et al.</i> TSH Is a Negative Regulator of Skeletal Remodeling: <i>Cell</i> 2003;115:151-162. Clinical Research Article: Nasser Said-Al-Naief, DDS, MS Kocher MS, Kasser JR. A Review Paper: Osteopetrosis. <i>Am J Orthop</i> 2003;May:222-228
12-04-03	Special Speaker: Laura D. Carbone, MS, MD, Department of Medicine, University of Tennessee College of Medicine <i>Title:</i> The Relationship of Sodium Intake to Bone Health
2002	
01-03-02	Basic Research Article: Pi-Ling Chang, PhD Perlot RL Jr, Shapiro IM, Mansfield K, Adams CS. Matrix regulation of skeletal cell apoptosis II: Role of arg-gly-asp-containing peptides. <i>J Bone Miner Res</i> 2002;17:66-76. Clinical Research Article: Ted R. Mikuls, MD Oinuma K, Harada Y, Nawata Y, Takabayashi K, Abe I, Kamikawa K, Moriya H. Osteonecrosis in patients with systemic lupus erythematosus develops very early after starting high dose corticosteroid treatment. <i>Ann Rheum Dis</i> 2001;60:1145-1148.
02-07-02	Basic Research Article: Joanne T. Douglas, PhD Matsubara S, Wada Y, Gardner TA, et al. A conditional replication-competent adenoviral vector, Ad-OC-E1a, to cotarget prostate cancer and bone stroma in an experimental model of androgen-independent prostate cancer bone metastasis. <i>Cancer Res</i> 2001;61:6012-6019. Clinical Research Article: Marcin Gornisiewicz, MD de Nijs RNJ, Jacobs JWG, Bijlsma JWJ, et al. Prevalence of vertebral deformities and symptomatic vertebral fractures in corticosteroid treated patients with rheumatoid arthritis. <i>Rheumatology</i> 2001;40:1375-1383.
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04-04-02	Special Speaker: Ernst B. Hunziker, MD, Professor and Chairman, M.E. Müller Institute for Biomechanics, University of Bern, Bern, Switzerland <i>Title:</i> Tissue Engineering Approaches for Articular Cartilage Repair
05-02-02	Basic Research Article: Joanne E. Murphy-Ullrich, PhD Heino TJ, Hentunen TA, Väänänen HK. Osteocytes inhibit osteoclastic bone resorption through transforming growth factor- β : Enhancement by estrogen. <i>J Cell Biochem</i> 2002;85:185-197.

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	<p>Clinical Research Article: Sattar A. Hadi, MD Fogelholm GM, Sievänen HT, Kukkonen-Harjula TK, Pasanen ME. Bone mineral density during reduction, maintenance and regain of body weight in premenopausal, obese women. <i>Osteoporos Int</i> 2001;12:199-206.</p>
06-06-02	<p>Basic Research Article: Mary Ann Accavitti, PhD Roggia C, Gao Y, Cenci S, Weitzmann MN, Toraldo G, Isaia G, Pacifici R. Up-regulation of TNF-producing T cells in the bone marrow: A key mechanism by which estrogen deficiency induces bone loss <i>in vivo</i>. <i>PNAS</i> 2001;98:13960-13965.</p> <p>Clinical Research Article: Nadine James, PhD Wu CH, Yang YC, Yao WJ, Lu FH, Wu JS, Chang CJ. Epidemiological evidence of increased bone mineral density in habitual tea drinkers. <i>Arch Intern Med</i> 2002;162:1001-1006.</p>
09-05-02	<p>Basic Research Article: Katri S. Selander, MD, PhD Käkönen S-M, Selander KS, Chirgwin JM, Yin JJ, <i>et al</i>. Transforming growth factor-β stimulates parathyroid hormone-related protein and osteolytic metastases via Smad and mitogen-activated protein kinase signaling pathways. <i>J Biol Chem</i> 2002;277:24571-24578.</p> <p>Clinical Research Article: Jason Olivieri, MPH Writing Group for the Women's Health Initiative Investigators (Rossouw SE, Anderson GL, Prentice RL, <i>et al</i>). Risks and benefits of estrogen plus progestin in healthy postmenopausal women: Principal results from the women's health initiative randomized controlled trial. <i>JAMA</i> 2002;288:321-333</p>
10-03-02	<p>Special Speaker: Nancy E. Lane, MD, Associate Professor in Residence of Medicine and Rheumatology, University of California, San Francisco <i>Title:</i> A New Paradigm for Osteoporosis Treatment</p>
11-07-02	<p>Basic Research Article: Robert W. Hardy, PhD Hung SC, Chen NJ, Hsieh SL, Li H, Ma HL, Lo WH. Isolation and characterization of size-sieved stem cells from human bone marrow. <i>Stem Cells</i> 2002;20:249-258.</p> <p>Clinical Research Article: Amie B. Jackson, MD Garland DE, Adkins RH, Stewart CA, Ashford R, Vigil D. Regional osteoporosis in women who have a complete spinal cord injury. <i>J Bone Joint Surg</i> 2001;83-A:1195-1200.</p>
12-05-02	<p>Basic Research Article: Majd Zayzafoon, MD, PhD Narayanan R, Smith CL, Weigel NL. Vector-averaged gravity-induced changes in cell signaling and vitamin D receptor activity in MG-63 cells are reversed by a 1,25-(OH)$_2$D$_3$ analog, EB1089. <i>Bone</i> 2002;31:381-388.</p> <p>Clinical Research Article: Sonia Bajaj, MD Abrahamsen B, Nissen N, Hermann AP, Hansen B, <i>et al</i>. When should densitometry be repeated in healthy peri- and postmenopausal women: The Danish osteoporosis prevention study. <i>J Bone Miner Res</i> 2002 ;17:2061-2067.</p>
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01-04-01	<p>Basic Research Article: Shuting Bai Zhang Y-W, Yasui N, Ito K, Huang G, Fujii M, Hanai J-I, Nogami H, Ochi T, Miyazono K, Ito Y. A RUNX2/PEBP2αA/CBFA1 mutation displaying impaired transactivation and Smad interaction in cleidocranial dysplasia. <i>Proc Natl Acad Sci U S A</i> 2000;97:10549-10554.</p> <p>Clinical Research Article: Sarah Morgan, MD, RD, FACP Mitchell DY, Heise MA, Pallone KA, Clay ME, Nesbitt JD, Russell D, Melson C. The effect of dosing regimen on the pharmacokinetics of risedronate. <i>Br J Clin Pharmacol</i> 1999;48:536-542.</p> <p>Lanza FL, Hunt RH, Thomson ABR, Provenza JM, Blank MA. Endoscopic comparison of esophageal and gastroduodenal effects of risedronate and alendronate in postmenopausal women. <i>Gastroenterology</i> 2000;119:631-638.</p>

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02-01-01	<p>Basic Research Article: Cancelled</p> <p>Clinical Research Article: Cora E. Lewis, MD Cummings SR, Palermo L, Browner W, Marcus R, Wallace R, Pearson J, Blackwell T, Eckert S, Black D. Monitoring osteoporosis therapy with bone densitometry. <i>JAMA</i> 2000;283:1318-1321.</p>
03-01-01	<p>Basic Research Article: Xu Feng, PhD Kornak U, Kasper D, Bösl MR, Kaiser E, Schweizer M, Schulz A, Friedrich W, Delling G, Jentsch TJ. Loss of the CIC-7 chloride channel leads to osteopetrosis in mice and man. <i>Cell</i> 2001;104:205-215.</p> <p>Clinical Research Article: Kenneth M. McCormick, MD Meghji S, Morrison MS, Henderson B, Arnett TR. pH dependence of bone resorption: Mouse calvarial osteoclasts are activated by acidosis. <i>Am J Physiol Endocrinol Metab</i> 2001;280:E112-E119.</p>
04-05-01	<p>Basic Research Article: Liang Zhang, PhD Lam J, Takeshita S, Barker JE, Kanagawa O, Ross FP, Teitelbaum SL. TNF-α induces osteoclastogenesis by direct stimulation of macrophages exposed to permissive levels of RANK ligand. <i>J Clin Invest</i> 2000;106:1481-1488.</p> <p>Clinical Research Article: Jay M. McDonald, MD Tebas P, Powderly WG, Claxton S, Marin D, Tantisiriwat W, Teitelbaum SL, Yarasheski KE. Accelerated bone mineral loss in HIV-infected patients receiving potent antiretroviral therapy. <i>AIDS</i> 2000;14:F63-F67.</p> <p>General Reference - Clinical Research Article: Mynarick DC, McNurlan MA, Steigbigel RT, Fuhrer J, Gelato MC. Association of severe insulin resistance with bone loss of limb fat and elevated serum tumor necrosis factor receptor levels in HIV lipodystrophy. <i>J Acquir Immune Defic Syndr</i> 2000;25:312-321.</p>
05-03-01	<p>Special Speaker: Jay Shapiro, MD, Professor, Department of Medicine, and Director, Interdepartmental Center for Space Medicine, Uniformed Services University of the Health Sciences, and Director, Osteogenesis Imperfecta Clinic, The Kennedy Krieger Institute <i>Title:</i> Bone Loss and the Trip to Mars</p>
06-07-01	<p>Basic Research Article: Gene P. Siegal, MD, PhD Bolon B, Carter C, Daris M, Morony S, Capparelli C, Hsieh A, Mao M, Kostenuik P, Dunstan CR, Lacey DL, Sheng JZ. Adenoviral delivery of osteoprotegerin ameliorates bone resorption in a mouse ovariectomy model of osteoporosis. <i>Mol Therapy</i> 2001;3:197-205.</p> <p>Clinical Research Article: Laura Hughes, MD Neer RM, Arnaud CD, Zanchetta JR, Prince R, Gaich GA, Reginster-J-Y, Hodsman AB, Eriksen EF, Ish-Shalom S, Genant HK, Wang O, Mitlak BH. Effects of parathyroid hormone (1-34) on fractures and bone mineral density in postmenopausal women with osteoporosis. <i>N Engl J Med</i> 2001;344:1434-1441.</p>
09-06-01	<p>Special Speaker: Ernesto Canalis, MD, Professor, Department of Research St. Francis Hospital Medical Center, Hartford, Connecticut <i>Title:</i> Mechanisms of Glucocorticoid Action in Bone: Relevance to Glucocorticoid Induced Osteoporosis <i>Title:</i> Role of Growth Factors and Their Antagonists in Bone Cell Function</p>
10-04-01	<p>Basic Research Article: Stacey Kelpke, PhD Jaiswal RK, Jaiswal N, Bruder SP, Mbalaviele G, Marshak DR, Pittenger MF. Adult human mesenchymal stem cell differentiation to the osteogenic or adipogenic lineage is regulated by mitogen-activated protein kinase. <i>J Biol Chem</i> 2000;275:9645-9652.</p> <p>Clinical Research Article: Richard J. Mischia, MD Harris ST, Eriksen EF, Davidson M, Ettinger MP, Moffett, Jr. AH, Baylink DJ, Crusan CE, Chines AA. Effect of combined risedronate and hormone replacement therapies on bone mineral density in postmenopausal women. <i>J Clin Endocrinol Metab</i> 2001;86:1890-1897.</p>

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11-01-01	<p>Special Speaker: Robert P. Heaney, MD, John A. Creighton University Professor, Creighton University, Omaha, Nebraska <i>Title:</i> Nutritional Co-Therapy for Osteoporosis: The Naaman Complex <i>Title:</i> How Much Vitamin D Do We Need? And Where Shall We Get It?</p>
12-06-01	<p>Basic Research Article: Nasser Said-Al-Naief, DDS Dieudonné SC, Foo P, Van Zoelen EJJ, Burger EH. Inhibiting and stimulating effects of TGF-β_1 on osteoclastic bone resorption in fetal mouse bone organ cultures. <i>J Bone Miner Res</i> 1991;6:479-487.</p> <p>Clinical Research Article: Kenneth G. Saag, MD Israel E, Banerjee TR, Fitzmaurice GM, Kotlov TV, LaHive K, LeBoff MS. Effect of inhaled glucocorticoids on bone density in premenopausal women. <i>N Engl J Med</i> 2001;345:941-947.</p>
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01-06-00	<p>Basic Research Article: Kirsten Larsen, BA Villanova I, Townsend PA, Uhlmann E, Knolle J, Peyman A, Amling M, Baron R, Horton MA, Teti A. Oligodeoxynucleotide targeted to the α_v gene inhibits α_v integrin synthesis, impairs osteoclast function, and activates intracellular signals to apoptosis. <i>J Bone Miner Res</i> 1999;14:1867-1879.</p> <p>General Reference - Basic Research Article: Hughes DE, Boyce BF. Apoptosis in bone physiology and disease. <i>J Clin Pathol: Mol Pathol</i> 1997;50:132-137.</p> <p>Clinical Research Article: Amy Mudano, MPH Buckley LM, Marquez M, Feezor R, Ruffin DM, and Benson LL. Prevention of corticosteroid-induced osteoporosis. Results of a patient survey. <i>Arthritis Rheum</i> 1999;42:1736-1739. Aagaard EM, Lin P, Modin GW, and Lane NE. Prevention of glucocorticoid-induced osteoporosis: provider practice at an urban county hospital. <i>Am J Med</i> 1999;107:456-460.</p>
03-02-00	<p>Basic Research Article: Timothy R. Nagy, PhD Nagy TR, Clair A-L. Precision and accuracy of dual-energy x-ray absorptiometry for determining <i>in vivo</i> body composition of mice. <i>Obesity Research</i> 2000 (in press).</p> <p>Clinical Research Article: Michael S. McCracken, DDS, PhD Masuda T, Salvi GE, Offenbacher S, Felton DA Cooper LF. Cell and matrix reactions at titanium implants in surgically prepared rat tibiae. <i>Int J Oral Maxillofac implants</i> 1997;12:472-485.</p> <p>General Reference - Clinical Research Article: Misch CE. Endosteal implants for posterior single tooth replacement: Alternatives, indications, contraindications, and limitations. <i>J Oral Implantology</i> 1999;25:80-94.</p>
04-06-00	<p>Basic Research Article: Harry C. Blair, MD Risser F, Pfister CU, Degen PH. An enzyme inhibition assay for the quantitative determination of the new bisphosphonate zoledronate in plasma. <i>J Pharm Biomed Anal.</i> 1997;15:1877-1880. Shipman CM, Croucher PI, Russell RGG, Helfrich MH, Rogers MJ. The bisphosphonate incadronate (YM175) causes apoptosis of human myeloma cells <i>in vitro</i> by inhibiting the mevalonate pathway. <i>Cancer Res</i> 1998;58:5294-5297.</p> <p>Clinical Research Article: Kenneth G. Saag, MD, MSc Hochberg MC, Ross PD, Black D, Cummings SR, Genant HK, Nevitt MC, Barrett-Connor E, Musliner T, Thompson D. Larger increases in bone mineral density during alendronate therapy are associated with a lower risk of new vertebral fractures in women with postmenopausal osteoporosis. <i>Arthritis Rheum</i> 1999;42:1246-1254. Wasnich RD, Miller PD. Anti-fracture efficacy of antiresorptive agents are related to changes in bone density. <i>J Clin Endocrinol Metab</i> 2000;85:231-236</p>

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05-04-00	<p>Basic Research Article: Xingming Shi, PhD Mundy G, Garrett R, Harris S, Chan J, Chen D, Rossini G, Boyce B, Zhao M, Gutierrez G. Stimulation of bone formation <i>in vitro</i> and in rodents by statins. <i>Science</i> 1999;286:1946-1949.</p> <p>Clinical Research Article: Sarah L. Morgan, MD, RD, FACP Ensrud KE, Duong T, Cauley JA, Heaney RP, Wolf RL, Harris E, Cummings SR. For the Study of Osteoporotic Fractures Research Group: Low fractional calcium absorption increases the risk for hip fracture in women with low calcium intake. <i>Ann Intern Med</i> 2000;132:345-353.</p>
06-01-00	<p>Basic Research Article: John P. Williams, PhD Ducy P, Amling M, Takeda S, Priemel M, Schilling AF, Beil FT, Shen J, Vinson C, Rueger JM, Karsenty G. Leptin inhibits bone formation through a hypothalamic relay: A central control of bone mass. <i>Cell</i> 2000;100:197-207.</p> <p>Clinical Research Article: Bruce P. Wheatley, PhD Stojanowski C, Seidemann R. A reevaluation of the sex prediction accuracy of the minimum supero-inferior femoral neck diameter for modern individuals. <i>J Forensic Sci</i> 1999;44:1215-1218.</p>
09-07-00	<p>Basic Research Article: Jay M. McDonald, MD Canalis E. Novel treatments for osteoporosis. <i>J Clin Invest</i> 2000;106:177-179.</p> <p>General References - Basic Research Article: Visentin L, Dodds RA, Valente M, Misiano P, Bradbeer JN, Oneta S, Liang X, Gowen M, Farina C. A selective inhibitor of the osteoclastic V-H⁺-ATPase prevents bone loss in both thyroparathyroidectomized and ovariectomized rats. <i>J Clin Invest</i> 2000;106:309-318. Gowen M, Stroup GB, Dodds RA, James IE, Votta BJ, Smith BR, Bhatnagar PK, Lago AM, Callahan JF, DelMar EG, Miller MA, Nemeth EF, Fox F. Antagonizing the parathyroid calcium receptor stimulates parathyroid hormone secretion and bone formation in osteopenic rats. <i>J Clin Invest</i> 2000;105:1595-1604.</p> <p>Clinical Research Article: Andrea Ohldin, MD Nevitt M, Thompson DE, Black DM, Rubin SR, Ensrud K, Yates AJ, Cummings SR. Effect of alendronate on limited-activity days and bed-disability days caused by back pain in postmenopausal women with existing vertebral fractures. <i>Arch Intern Med</i> 2000;160:77-85.</p>
10-05-00	<p>Basic Research Article: Susan L. Bellis, PhD Ozawa S, Kasugai S. Evaluation of implant materials (hydroxyapatite, glass-ceramics, titanium) in rat bone marrow stromal cell culture. <i>Biomaterials</i> 1996;17:23-29.</p> <p>Clinical Research Article: Daniel S. Moore, MD Gulam M, Thornton MM, Hodsman AB, Holdsworth DW. Bone mineral measurement of phalanges: Comparison of radiographic absorptiometry and area dual X-ray absorptiometry. <i>Radiology</i> 216:586-591, 2000.</p>
11-02-00	<p>Basic Research Article: Marjorie K. Jeffcoat, DMD Cortellini P, Pini Prato G, Tonetti MS. Periodontal regeneration of human intrabony defects with titanium reinforced membrane: a controlled clinical trial. <i>J Periodontol</i> 1995;66:797-803.</p> <p>Clinical Research Article: Ali Ahmed, MD. Orr-Walker BJ, Evans MC, Clearwater JM, Horne A, Grey AB, Reid AR. Effects of hormone replacement therapy on bone mineral density in postmenopausal women with primary hyperparathyroidism. <i>Arch Intern Med</i> 2000;160:2161-2166.</p>
12-07-00	<p>Basic Research Article: Wen-Cheng Xiong, MD, PhD Wong BR, Besser D, Kim N, Arron JR, Vologodskaja M, Hanafusa H, Choi Y. TRANCE, a TNF family member, activates Akt/PKB through a signaling complex involving TRAF6 and c-Src. <i>Molecular Cell</i> 1999;4:1041-1049.</p> <p>Clinical Research Article: Kenneth G. Saag, MD, MSc</p>

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02-04-99	<p>Basic Research Article: Harry C. Blair, MD Kuiper GG, Lemmen JG, Carlsson B, Corton JC, Safe SH, Van Der Saag PT, Van Der Burg B, Gustafsson J-A. Interaction of estrogenic chemicals and phytoestrogens with estrogen receptor β. <i>Endocrinology</i> 1998;139(10):4252-4263.</p> <p>Clinical Research Article: Kenneth G. Saag, MD Delmas PD, Bjarnason NH, Mitlak BH, Ravoux AC, Shah AS, Huster WJ, Draper M, Christiansen C. Effects of raloxifene on bone mineral density, serum cholesterol concentrations, and uterine endometrium in postmenopausal women. <i>N Engl J Med</i> 1997;337(23):1641-1647.</p> <p>General Reference Article: Jordan VC. Designer estrogens: <i>Sci Am</i> 1998;279(4):60-67.</p>
03-04-99	<p>Basic Research Article: John P. Williams, PhD Kong Y-Y, Yoshida H, Sarosi I, <i>et al.</i> OPGL is a key regulator of osteoclastogenesis, lymphocyte development and lymph-node organogenesis. <i>Nature</i> 1999;397:315-323.</p> <p>General Reference - Basic Research Article: Teitelbaum SL, Abu-Amer Y, Ross FP. Molecular mechanisms of bone resorption. <i>J Cell Biochem</i> 1995;59:1-10.</p> <p>Clinical Research Article: Jay M. McDonald, MD Chesnut CH, Bell NH, Clark GS, <i>et al.</i> Hormone replacement therapy in postmenopausal women: Urinary N-telopeptide of Type I collagen monitors therapeutic effect and predicts response of bone mineral density. <i>Am J Med</i> 1997;102:29-37.</p> <p>General Reference - Clinical Research Article: Christenson RH. Biochemical markers of bone metabolism: An overview. <i>Clin Biochem</i> 1997;30:573-593.</p>
05-06-99	<p>Basic Research Article: Helen Kim, PhD Goetz RM, Thatté HS, Prabhaker P, Cho MR, Michel T, Golan DE. Estradiol induces the calcium-dependent translocation of endothelial nitric oxide synthase. <i>Proc Natl Acad Sci</i> 1999;96:2788-2793.</p> <p>Clinical Research Article: Sarah L. Morgan, MD, RD, FACP Feskanich D, Weber P, Willett WC, Rockett H, Booth SL, Colditz GA. Vitamin K intake and hip fractures in women: A prospective study. <i>Am J Clin Nutr</i> 1999;69:74-79.</p>
06-03-99	<p>Basic Research Articles: Alan W. Eberhardt, PhD Brown TD, Way ME, Ferguson AB Jr. Mechanical characteristics of bone in femoral capital aseptic necrosis. <i>Clin Orthop Rel Res</i> 1981;156:240-247. Brown TD, Baker KJ, Brand RA. Structural consequences of subchondral bone involvement in segmental osteonecrosis of the femoral head. <i>J Orthop Res</i> 1992;10:79-87.</p> <p>Clinical Research Article: Bruce A. Julian, MD Ramsey-Goldman R, Dunn JE, Dunlop DD, Stuart FP, Abecassis MM, Kaufman DB, Langman CB, Salinger MH, Sprague SM. Increased risk of fracture in patients receiving solid organ transplants. <i>J Bone Miner Res</i> 1999;14:456-463.</p>
09-02-99	<p>Basic Research Article: Xu Cao, PhD Pittenger M, Mackay A, Beck S, Jaiwal R, Douglas R, Mosca J, Moorman M, Simonetti D, Craig S, Marshak D. Multilineage potential of adult human mesenchymal stem cells. <i>Science</i> 1999;284:143-146.</p> <p>General Reference - Basic Research Article: Prockop DJ. Marrow stromal cells as stem cells for nonhematopoietic tissues. <i>Science</i> 1997;276:71-74.</p> <p>Clinical Research Article: Elizabeth M. Kitchin, BS, MS, RD Heaney RP, Dowell MS, Barger-Lux MJ. Absorption of calcium as the carbonate and</p>

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	<p>citrate salts, with some observations on method. <i>Osteoporos Int.</i> 1999;9:19-23. General Reference – Clinical Research Article: Recker RR, Bammi A, Barger-Lux MF. Calcium absorbability from milk products, an imitation milk, and calcium carbonate. <i>Am J Clin Nutr.</i> 1988;47:93-95.</p>
10-07-99	<p>Basic Research Article: Dale S. Feldman, PhD Win S, Schmidt J, Buck D, Hu Y, Grainger D, and Hollinger, J. Tissue-engineered bone biomimetic to regenerate calvarial critical-sized defects in athymic rats. <i>J Biomed Mater Res</i> 1999; 45(4):414-421. General Reference - Basic Research Article: Damien C. and Parsons J. Bone graft and bone graft substitutes: A review of current technology and applications. <i>J Applied Biomaterials</i> 1991;2:187-208. Donkerwolcke M. and Muster B. Tissue and bone adhesives: Historical aspects. <i>Biomaterials</i> 1998;19:1461-1466. Clinical Research Article: Robert R. Lopez, MD Jensen ME, Evans AJ, Mathis JM, Kallmes DF, Cloft HJ, and Dion JE. Percutaneous polymethylmethacrylate vertebroplasty in the treatment of osteoporotic vertebral body compression fractures: Technical aspects. <i>Am J Neuroradiol</i> 1997;18:1897-1904.</p>
12-02-99	<p>Basic Research Article: Richard Mayne, PhD Lee ER, Murphy G, El-Alfy M, Davoli MA, Lamplugh L, Docherty AJ, Leblond CP. Active gelatinase B is identified by histozyomography in the cartilage resorption sites of developing long bones. <i>Dev Dyn</i> 1999;215:190-205. Vu TH, Shipley JM, Bergers G, Berger JE, Helms JA, Hanahan D, Shapiro SD, Senior RM, Werb Z. MMP-9'Gelatinase B is a key regulator of growth plate angiogenesis and apoptosis of hypertrophic chondrocytes. <i>Cell</i> 1998;93:411-422. Clinical Research Article: Don Lein, MS, PT Sinaki M, Fitzpatrick LA, Ritchie CK, Montesano A, Wahner HW. Site specificity of bone mineral density and muscle strength in women; job-related physical activity. <i>Am J Physical Med Rehab</i> 1998;77:470-476.</p>