

ASBMR 2010 Annual Meeting

October 15 –19, 2010 • Metro Toronto Convention Centre • Toronto, Ontario, Canada

Poster Session I, Saturday, October 16, 11:30 am – 1:30 pm	
Poster Clusters	Poster Presentation Number(s)
Bone Acquisition and Pediatric Bone Disease: Assessment of Pediatric Bone Disease	SA0001 - SA0007
Bone Acquisition and Pediatric Bone Disease: Bone Acquisition	SA0008 - SA0015
Bone Acquisition and Pediatric Bone Disease: Bone Loss	SA0016 - SA0017
Bone Acquisition and Pediatric Bone Disease: Pathophysiology of Pediatric Bone Disease	SA0018 - SA0022
Bone Acquisition and Pediatric Bone Disease: Treatment of Pediatric Bone Disease	SA0023 - SA0026
Bone Biomechanics and Quality: Assessment of Bone Quality and Strength	SA0027 - SA0047
Bone Biomechanics and Quality: Changes in Bone Quality in Untreated and Treated Osteoporosis	SA0048 - SA0050
Bone Biomechanics and Quality: Disuse Osteoporosis	SA0051
Bone Biomechanics and Quality: Mechanical Loading Cellular and Molecular Effects	SA0052 - SA0055
Bone Biomechanics and Quality: Mechanical Loading Effects in Humans and Intact Animals	SA0056 - SA0061
Bone, Cartilage and Connective Tissue Matrix: Analysis Techniques	SA0062 - SA0065
Bone, Cartilage and Connective Tissue Matrix: Analysis: Calcification	SA0066
Bone, Cartilage and Connective Tissue Matrix: Cartilage and Chondrocytes	SA0067 - SA0079
Bone, Cartilage and Connective Tissue Matrix: Gene Identification and Expression	SA0080 - SA0087
Bone, Cartilage and Connective Tissue Matrix: General	SA0088 - SA0099
Bone, Cartilage and Connective Tissue Matrix: Matrix Proteins	SA0100 - SA0101
Bone, Cartilage and Connective Tissue Matrix: Mechanical Stress	SA0102 - SA0106
Calcitropic and Phosphotropic Hormones: Calcitonin and Related Peptides	SA0107
Calcitropic and Phosphotropic Hormones: FGF23 and Other Phosphatonins	SA0108 - SA0113
Calcitropic and Phosphotropic Hormones: Parathyroid and Parathyroid Hormone-Related Peptide	SA0114 - SA0122
Cancer and Bone: Breast and Prostate	SA0123 - SA0133
Cancer and Bone: General	SA0134 - SA0145
Disorders of Bone (Genetic): General Studies	SA0146 - SA0152
Disorders of Bone (Genetic): Genetic Defects in Bone Resorption and/or Formation	SA0153 - SA0163

Disorders of Bone (Genetic): Linkage and Heritability Studies	SA0164 - SA0165
Disorders of Bone (Genetic): Polymorphisms	SA0166 - SA0172
Growth Factors and Cytokines: Bone Morphogenetic Proteins	SA0173 - SA0177
Growth Factors and Cytokines: Fibroblast Growth Factors	SA0178
Growth Factors and Cytokines: General	SA0179 - SA0190
Growth Factors and Cytokines: Insulin-like Growth Factors and Binding Proteins	SA0191 - SA0194
Growth Factors and Cytokines: Transforming Growth Factor	SA0195 - SA0196
Osteoblasts: Apoptosis and Cell Cycle	SA0197 - SA0198
Osteoblasts: Bone Formation and Bone Resorption	SA0199 - SA0217
Osteoblasts: Gene Expression and Transcription Factors	SA0218 - SA0230
Osteoblasts: Hormonal Regulation and Signal Transduction	SA0231 - SA0236
Osteoblasts: Progenitor and Stromal Cells, Proliferation and Differentiation	SA0237 - SA0251
Osteoblasts: Steroid/SERM Effects	SA0252
Osteoclasts: Cathepsins and Other Proteinases	SA0253
Osteoclasts: Cell Adhesion	SA0254 - SA0255
Osteoclasts: Cytokines and Growth Factors	SA0256 - SA0257
Osteoclasts: Differentiation	SA0258 - SA0268
Osteoclasts: Inhibition of Resorption	SA0269 - SA0275
Osteoclasts: Isolation and Lineage	SA0276
Osteoclasts: Signal Transduction	SA0277 - SA0280
Osteocytes: Regulation of Bone Formation	SA0281 - SA0287
Osteocytes: Regulation of Bone Mineralization	SA0288 - SA0289
Osteocytes: Regulation of Mineral Ion Homeostasis	SA0290 - SA0291
Osteoporosis Assessment: Biochemical Markers	SA0292 - SA0295
Osteoporosis Assessment: Bone Mineral Density	SA0296 - SA0306
Osteoporosis Assessment: Bone Structure	SA0307 - SA0313
Osteoporosis Assessment: Ultrasound	SA0314 - SA0315
Osteoporosis Epidemiology: Bone Mineral Density	SA0316 - SA0322
Osteoporosis Epidemiology: Diet and Environmental Factors	SA0323 - SA0330
Osteoporosis Epidemiology: Fracture Outcome	SA0331 - SA0345
Osteoporosis Epidemiology: Lifestyle and Bone (alcohol, tobacco)	SA0346 - SA0347
Osteoporosis Epidemiology: Menopause and Gonadal Steroids	SA0348

Osteoporosis Epidemiology: Risk Factors	SA0349 - SA0361
Osteoporosis Pathophysiology: Bone Mineral Density	SA0362
Osteoporosis Pathophysiology: Bone Structure	SA0363 - SA0365
Osteoporosis Pathophysiology: Dietary Factors	SA0366 - SA0367
Osteoporosis Pathophysiology: Gonadal Steroids	SA0368 - SA0369
Osteoporosis Pathophysiology: Male Osteoporosis	SA0370 - SA0371
Osteoporosis Pathophysiology: Miscellaneous	SA0372 - SA0373
Osteoporosis Pathophysiology: Bone Remodeling	SA0374 - SA0375
Osteoporosis Treatment (Clinical): Anabolic Agents	SA0376 - SA0381
Osteoporosis Treatment (Clinical): Bisphosphonates	SA0382 - SA0396
Osteoporosis Treatment (Clinical): Compliance and Persistence	SA0397 - SA0401
Osteoporosis Treatment (Clinical): Gonadal Steroids and SERMs	SA0402 - SA0403
Osteoporosis Treatment (Clinical): Health Economics	SA0404 - SA0405
Osteoporosis Treatment (Clinical): Other Agents	SA0406 - SA0412
Osteoporosis Treatment (Clinical): Quality of Life	SA0413 - SA0414
Osteoporosis Treatment (Clinical): Vitamin D and Metabolites	SA0415 - SA0419
Osteoporosis Treatment (Pre-Clinical): Anabolic Agents	SA0420 - SA0427
Osteoporosis Treatment (Pre-Clinical): Bisphosphonates	SA0428 - SA0431
Osteoporosis Treatment (Pre-Clinical): Calcium and Dietary Factors	SA0432
Osteoporosis Treatment (Pre-Clinical): Gonadal Steroids and SERMs	SA0433 - SA0434
Osteoporosis Treatment (Pre-Clinical): Other Agents	SA0435 - SA0440
Osteoporosis Treatment (Pre-Clinical): Vitamin D and Metabolites	SA0441 - SA0443
Other Disorders of Bone: Congenital and Genetic Bone Diseases	SA0444 - SA0445
Other Disorders of Bone: Osteomalacia/Rickets	SA0446 - SA0448
Other Disorders of Bone: Paget's Disease	SA0449
Other Disorders of Bone: Parathyroid Diseases	SA0450 - SA0455
Other Disorders of Bone: Renal Bone Disease	SA0456 - SA0460
Other Disorders of Bone: Rheumatologic and Other Systemic Illnesses	SA0461 - SA0470
Other Disorders of Bone: Transplantation	SA0471 - SA0473
Steroid Hormones and Receptors: Calcium-Sensing Receptors	SA0474
Steroid Hormones and Receptors: Glucocorticoids	SA0475
Steroid Hormones and Receptors: PTH/PTHrP	SA0476

Steroid Hormones and Receptors: Sex Steroids	SA0477 - SA0478
Steroid Hormones and Receptors: Vitamin D and Its Analogs	SA0479 - SA0485

Poster Session II, Sunday, October 17, 11:00 am – 1:00 pm	
Poster Clusters	Poster Presentation Number(s)
Bone Acquisition and Pediatric Bone Disease: Assessment of Pediatric Bone Disease	SU0001 - SU0007
Bone Acquisition and Pediatric Bone Disease: Bone Acquisition	SU0008 - SU0016
Bone Acquisition and Pediatric Bone Disease: Bone Loss	SU0017
Bone Acquisition and Pediatric Bone Disease: Pathophysiology of Pediatric Bone Disease	SU0018 - SU0023
Bone Acquisition and Pediatric Bone Disease: Treatment of Pediatric Bone Disease	SU0024 - SU0026
Bone Biomechanics and Quality: Assessment of Bone Quality and Strength	SU0027 - SU0045
Bone Biomechanics and Quality: Changes in Bone Quality in Untreated and Treated Osteoporosis	SU0046 - SU0048
Bone Biomechanics and Quality: Disuse Osteoporosis	SU0049 - SU0050
Bone Biomechanics and Quality: Mechanical Loading Cellular and Molecular Effects	SU0051 - SU0053
Bone Biomechanics and Quality: Mechanical Loading Effects in Humans and Intact Animals	SU0054 - SU0061
Bone, Cartilage and Connective Tissue Matrix: Analysis Techniques	SU0062 - SU0066
Bone, Cartilage and Connective Tissue Matrix: Analysis: Calcification	SU0067 - SU0068
Bone, Cartilage and Connective Tissue Matrix: Cartilage and Chondrocytes	SU0069 - SU0080
Bone, Cartilage and Connective Tissue Matrix: Gene Identification and Expression	SU0081 - SU0087
Bone, Cartilage and Connective Tissue Matrix: General	SU0088 - SU0096
Bone, Cartilage and Connective Tissue Matrix: Matrix Proteins	SU0097 - SU0099
Bone, Cartilage and Connective Tissue Matrix: Mechanical Stress	SU0100 - SU0106
Calcitropic and Phosphotropic Hormones: Calcitonin and Related Peptides	SU0107
Calcitropic and Phosphotropic Hormones: FGF23 and Other Phosphatonins	SU0108 - SU0112
Calcitropic and Phosphotropic Hormones: Parathyroid and Parathyroid Hormone-Related Peptide	SU0113 - SU0120
Cancer and Bone: Breast and Prostate	SU0121 - SU0133
Cancer and Bone: General	SU0134 - SU0145
Disorders of Bone (Genetic): General Studies	SU0146 - SU0153
Disorders of Bone (Genetic): Genetic Defects in Bone Resorption and/or Formation	SU0154 - SU0163
Disorders of Bone (Genetic): Linkage and Heritability Studies	SU0164 - SU0165
Disorders of Bone (Genetic): Polymorphisms	SU0166 - SU0171

Growth Factors and Cytokines: Bone Morphogenetic Proteins	SU0172 - SU0175
Growth Factors and Cytokines: Fibroblast Growth Factors	SU0176 - SU0177
Growth Factors and Cytokines: General	SU0178 - SU0188
Growth Factors and Cytokines: Insulin-like Growth Factors and Binding Proteins	SU0189 - SU0192
Growth Factors and Cytokines: Transforming Growth Factor	SU0193 - SU0194
Osteoblasts: Apoptosis and Cell Cycle	SU0195
Osteoblasts: Bone Formation and Bone Resorption	SU0196 - SU0215
Osteoblasts: Gene Expression and Transcription Factors	SU0216 - SU0227
Osteoblasts: Hormonal Regulation and Signal Transduction	SU0228 - SU0233
Osteoblasts: Progenitor and Stromal Cells, Proliferation and Differentiation	SU0234 - SU0249
Osteoclasts: Cathepsins and Other Proteinases	SU0250
Osteoclasts: Cell Adhesion	SU0251
Osteoclasts: Cytokines and Growth Factors	SU0252 - SU0254
Osteoclasts: Differentiation	SU0255 - SU0264
Osteoclasts: Inhibition of Resorption	SU0265 - SU0271
Osteoclasts: Isolation and Lineage	SU0272 - SU0273
Osteoclasts: Signal Transduction	SU0274 - SU0277
Osteocytes: Regulation of Bone Formation	SU0278 - SU0285
Osteocytes: Regulation of Bone Mineralization	SU0286 - SU0287
Osteoporosis Assessment: Biochemical Markers	SU0288 - SU0290
Osteoporosis Assessment: Bone Mineral Density	SU0291 - SU0300
Osteoporosis Assessment: Bone Structure	SU0301 - SU0309
Osteoporosis Assessment: Ultrasound	SU0310 - SU0311
Osteoporosis Epidemiology: Bone Mineral Density	SU0312 - SU0321
Osteoporosis Epidemiology: Diet and Environmental Factors	SU0322 - SU0329
Osteoporosis Epidemiology: Fracture Outcome	SU0330 - SU0342
Osteoporosis Epidemiology: Lifestyle and Bone (alcohol, tobacco)	SU0343
Osteoporosis Epidemiology: Menopause and Gonadal Steroids	SU0344
Osteoporosis Epidemiology: Risk Factors	SU0345 - SU0357
Osteoporosis Pathophysiology: Bone Mineral Density	SU0358
Osteoporosis Pathophysiology: Bone Structure	SU0359
Osteoporosis Pathophysiology: Dietary Factors	SU0360 - SU0361

Osteoporosis Pathophysiology: Gonadal Steroids	SU0362 - SU0363
Osteoporosis Pathophysiology: Male Osteoporosis	SU0364
Osteoporosis Pathophysiology: Miscellaneous	SU0365 - SU0369
Osteoporosis Pathophysiology: Bone Remodeling	SU0370 - SU0371
Osteoporosis Treatment (Clinical): Anabolic Agents	SU0372 - SU0379
Osteoporosis Treatment (Clinical): Bisphosphonates	SU0380 - SU0394
Osteoporosis Treatment (Clinical): Compliance and Persistence	SU0395 - SU0401
Osteoporosis Treatment (Clinical): Health Economics	SU0402 - SU0404
Osteoporosis Treatment (Clinical): Other Agents	SU0405 - SU0409
Osteoporosis Treatment (Clinical): Quality of Life	SU0410 - SU0412
Osteoporosis Treatment (Clinical): Vitamin D and Metabolites	SU0413 - SU0417
Osteoporosis Treatment (Pre-Clinical): Anabolic Agents	SU0418 - SU0425
Osteoporosis Treatment (Pre-Clinical): Bisphosphonates	SU0426 - SU0428
Osteoporosis Treatment (Pre-Clinical): Calcium and Dietary Factors	SU0429 - SU0431
Osteoporosis Treatment (Pre-Clinical): Gonadal Steroids and SERMs	SU0432 - SU0433
Osteoporosis Treatment (Pre-Clinical): Other Agents	SU0434 - SU0439
Osteoporosis Treatment (Pre-Clinical): Vitamin D and Metabolites	SU0440 - SU0441
Other Disorders of Bone: Congenital and Genetic Bone Diseases	SU0442 - SU0443
Other Disorders of Bone: Hypercalcemia of Malignancy	SU0444
Other Disorders of Bone: Idiopathic Hypercalciuria, Nephrolithiasis	SU0445
Other Disorders of Bone: Osteomalacia/Rickets	SU0446 - SU0447
Other Disorders of Bone: Paget's Disease	SU0448
Other Disorders of Bone: Parathyroid Diseases	SU0449 - SU0454
Other Disorders of Bone: Renal Bone Disease	SU0455 - SU0457
Other Disorders of Bone: Rheumatologic and Other Systemic Illnesses	SU0458 - SU0468
Other Disorders of Bone: Transplantation	SU0469 - SU0471
Steroid Hormones and Receptors: Glucocorticoids	SU0472 - SU0473
Steroid Hormones and Receptors: PTH/PTHrP	SU0474
Steroid Hormones and Receptors: Sex Steroids	SU0475
Steroid Hormones and Receptors: Vitamin D and Its Analogs	SU0477 - SU0482

Poster Session III, Monday, October 18, 11:30 am – 1:30 pm

Poster Cluster	Poster Presentation Number(s)
Bone Acquisition and Pediatric Bone Disease: Assessment of Pediatric Bone Disease	MO0001 - MO0005
Bone Acquisition and Pediatric Bone Disease: Bone Acquisition	MO0006 - MO0014
Bone Acquisition and Pediatric Bone Disease: Bone Loss	MO0015
Bone Acquisition and Pediatric Bone Disease: Pathophysiology of Pediatric Bone Disease	MO0016 - MO0020
Bone Acquisition and Pediatric Bone Disease: Treatment of Pediatric Bone Disease	MO0021 - MO0025
Bone Biomechanics and Quality: Assessment of Bone Quality and Strength	MO0026 - MO0043
Bone Biomechanics and Quality: Changes in Bone Quality in Untreated and Treated Osteoporosis	MO0044 - MO0046
Bone Biomechanics and Quality: Disuse Osteoporosis	MO0047 - MO0048
Bone Biomechanics and Quality: Mechanical Loading Cellular and Molecular Effects	MO0049 - MO0051
Bone Biomechanics and Quality: Mechanical Loading Effects in Humans and Intact Animals	MO0052 - MO0058
Bone, Cartilage and Connective Tissue Matrix: Analysis Techniques	MO0059 - MO0062
Bone, Cartilage and Connective Tissue Matrix: Analysis: Calcification	MO0063 - MO0064
Bone, Cartilage and Connective Tissue Matrix: Cartilage and Chondrocytes	MO0065 - MO0076
Bone, Cartilage and Connective Tissue Matrix: Gene Identification and Expression	MO0077 - MO0084
Bone, Cartilage and Connective Tissue Matrix: General	MO0085 - MO0094
Bone, Cartilage and Connective Tissue Matrix: Matrix Proteins	MO0095 - MO0097
Bone, Cartilage and Connective Tissue Matrix: Mechanical Stress	MO0098 - MO0103
Calcitropic and Phosphotropic Hormones: Calcitonin and Related Peptides	MO0104
Calcitropic and Phosphotropic Hormones: FGF23 and Other Phosphatonins	MO0105 - MO0109
Calcitropic and Phosphotropic Hormones: Parathyroid and Parathyroid Hormone-Related Peptide	MO0110 - MO0117
Cancer and Bone: Breast and Prostate	MO0118 - MO0129
Cancer and Bone: General	MO0130 - MO0140
Disorders of Bone (Genetic): General Studies	MO0141 - MO0145
Disorders of Bone (Genetic): Genetic Defects in Bone Resorption and/or Formation	MO0146 - MO0157
Disorders of Bone (Genetic): Linkage and Heritability Studies	MO0158 - MO0159
Disorders of Bone (Genetic): Polymorphisms	MO0160 - MO0166
Growth Factors and Cytokines: Bone Morphogenetic Proteins	MO0167 - MO0170
Growth Factors and Cytokines: Fibroblast Growth Factors	MO0171 - MO0172
Growth Factors and Cytokines: General	MO0173 - MO0183

Growth Factors and Cytokines: Insulin-like Growth Factors and Binding Proteins	MO0184 - MO0185
Growth Factors and Cytokines: Transforming Growth Factor	MO0188 - MO0189
Osteoblasts: Apoptosis and Cell Cycle	MO0190
Osteoblasts: Bone Formation and Bone Resorption	MO0191 - MO0208
Osteoblasts: Gene Expression and Transcription Factors	MO0209 - MO0221
Osteoblasts: Hormonal Regulation and Signal Transduction	MO0222 - MO0226
Osteoblasts: Progenitor and Stromal Cells, Proliferation and Differentiation	MO0227 - MO0243
Osteoblasts: Steroid/SERM Effects	MO0244
Osteoclasts: Cell Adhesion	MO0245
Osteoclasts: Cytokines and Growth Factors	MO0246 - MO0249
Osteoclasts: Differentiation	MO0250 - MO0260
Osteoclasts: Inhibition of Resorption	MO0261 - MO0266
Osteoclasts: Isolation and Lineage	MO0267
Osteoclasts: Signal Transduction	MO0268 - MO0272
Osteocytes: Regulation of Bone Formation	MO0273 - MO0277
Osteocytes: Regulation of Bone Mineralization	MO0278 - MO0280
Osteocytes: Regulation of Mineral Ion Homeostasis	MO0281 - MO0282
Osteoporosis Assessment: Biochemical Markers	MO0283 - MO0285
Osteoporosis Assessment: Bone Mineral Density	MO0286 - MO0298
Osteoporosis Assessment: Bone Structure	MO0299 - MO0305
Osteoporosis Assessment: Ultrasound	MO0306 - MO0308
Osteoporosis Epidemiology: Bone Mineral Density	MO0309 - MO0316
Osteoporosis Epidemiology: Diet and Environmental Factors	MO0317 - MO0325
Osteoporosis Epidemiology: Fracture Outcome	MO0326 - MO0337
Osteoporosis Epidemiology: Lifestyle and Bone (alcohol, tobacco)	MO0338
Osteoporosis Epidemiology: Menopause and Gonadal Steroids	MO0339 - MO0340
Osteoporosis Epidemiology: Risk Factors	MO0341 - MO0355
Osteoporosis Pathophysiology: Bone Mineral Density	MO0356 -
Osteoporosis Pathophysiology: Bone Structure	MO0357 - MO0358
Osteoporosis Pathophysiology: Dietary Factors	MO0359
Osteoporosis Pathophysiology: Glucocorticoids	MO0360
Osteoporosis Pathophysiology: Gonadal Steroids	MO0361

Osteoporosis Pathophysiology: Male Osteoporosis	MO0362 - MO0363
Osteoporosis Pathophysiology: Miscellaneous	MO0364 - MO0367
Osteoporosis Pathophysiology: Bone Remodeling	MO0368 - MO0369
Osteoporosis Treatment (Clinical): Anabolic Agents	MO0370 - MO0375
Osteoporosis Treatment (Clinical): Bisphosphonates	MO0376 - MO0392
Osteoporosis Treatment (Clinical): Compliance and Persistence	MO0393 - MO0398
Osteoporosis Treatment (Clinical): Gonadal Steroids and SERMs	MO0399
Osteoporosis Treatment (Clinical): Health Economics	MO0400 - MO0404
Osteoporosis Treatment (Clinical): Other Agents	MO0405 - MO0410
Osteoporosis Treatment (Clinical): Quality of Life	MO0411 - MO0412
Osteoporosis Treatment (Clinical): Vitamin D and Metabolites	MO0413 - MO0417
Osteoporosis Treatment (Pre-Clinical): Anabolic Agents	MO0418 - MO0425
Osteoporosis Treatment (Pre-Clinical): Bisphosphonates	MO0426 - MO0428
Osteoporosis Treatment (Pre-Clinical): Calcium and Dietary Factors	MO0429 - MO0431
Osteoporosis Treatment (Pre-Clinical): Gonadal Steroids and SERMs	MO0432 - MO0433
Osteoporosis Treatment (Pre-Clinical): Other Agents	MO0434 - MO0440
Osteoporosis Treatment (Pre-Clinical): Vitamin D and Metabolites	MO0441 - MO0442
Other Disorders of Bone: Congenital and Genetic Bone Diseases	MO0443 - MO0444
Other Disorders of Bone: Idiopathic Hypercalciuria, Nephrolithiasis	MO0445
Other Disorders of Bone: Osteomalacia/Rickets	MO0446 - MO0447
Other Disorders of Bone: Paget's Disease	MO0448
Other Disorders of Bone: Parathyroid Diseases	MO0449 - MO0455
Other Disorders of Bone: Renal Bone Disease	MO0456 - MO0459
Other Disorders of Bone: Rheumatologic and Other Systemic Illnesses	MO0460 - MO0468
Other Disorders of Bone: Transplantation	MO0469 - MO0471
Steroid Hormones and Receptors: PTH/PTHrP	MO0472
Steroid Hormones and Receptors: Sex Steroids	MO0473 - MO0475
Steroid Hormones and Receptors: Vitamin D and Its Analogs	MO0476 - MO0484