Standard and novel imaging methods for multiple myeloma: correlates with prognostic laboratory variables including gene expression profiling data

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Online Supplementary Table S1. Odds ratios and *P* values for associations between imaging parameters, GEP, and standard laboratory parameters.

*Bolded **cells** indicate significant assocations (P<0.01).*

	Baseline MBS-OL > 0			Baseline MBS-OL > 2		
Independent variable	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**
Albumin < 3.5 g/dL	37/270 (13.7)	1.29 (0.75, 2.22)	0.408	26/270 (9.63)	1.21 (0.69, 2.13)	0.559
B2M ≥ 3.5 mg/L	62/270 23.0)	1.44 (0.89, 2.33)	0.144	47/270 (17.4)	1.66 (0.99, 2.76)	0.068
B2M > 5.5 mg/L	32/270 (11.9)	1.70 (0.94, 3.08)	0.098	**28/270 (10.4)**	**2.51 (1.37, 4.58)**	**0.004**
CRP ≥ 8 mg/L	49/269 (18.2)	1.62 (0.97, 2.70)	0.070	33/269 (12.3)	1.31 (0.77, 2.23)	0.338
Hb < 10 g/dL	41/270 (15.2)	1.13 (0.68, 1.90)	0.693	31/270 (11.5)	1.29 (0.75, 2.22)	0.402
LDH ≥ 190 U/L	39/270 (14.4)	1.70 (0.98, 2.96)	0.069	29/270 (10.7)	1.70 (0.97, 3.00)	0.075
Platelet count < 150 x 10^9/L	13/270 (4.81)	0.76 (0.36, 1.60)	0.572	9/270 (3.33)	0.77 (0.34, 1.75)	0.689
Cytogenetic abnormalities	40/270 (14.8)	0.85 (0.51, 1.41)	0.606	31/270 (11.5)	1.08 (0.63, 1.84)	0.786
GEP-70 high risk	24/245 (9.80)	2.47 (1.19, 5.12)	0.019	**20/245 (8.16)**	**2.90 (1.42, 5.92)**	**0.004**
GEP-80 high risk	10/245 (4.08)	2.04 (0.72, 5.80)	0.201	7/245 (2.86)	1.66 (0.60, 4.64)	0.409
GEP del TP53	13/245 (5.31)	1.01 (0.46, 2.23)	1.000	9/245 (3.67)	0.97 (0.42, 2.26)	1.000
GEP CD-1 subgroup	9/245 (3.67)	3.72 (0.98, 14.10)	0.071	6/245 (2.45)	2.15 (0.67, 6.89)	0.214
GEP CD-2 subgroup	8/245 (3.27)	0.40 (0.17, 0.95)	0.046	7/245 (2.86)	0.62 (0.25, 1.53)	0.400
GEP HY subgroup	39/245 (15.9)	1.13 (0.66, 1.93)	0.684	28/245 (11.4)	1.14 (0.65, 2.00)	0.666
GEP LB subgroup	21/245 (8.57)	1.14 (0.59, 2.21)	0.738	11/245 (4.49)	0.66 (0.31, 1.39)	0.371
GEP MF subgroup	8/245 (3.27)	0.70 (0.28, 1.75)	0.498	6/245 (2.45)	0.81 (0.30, 2.18)	0.810
GEP MS subgroup	11/245 (4.49)	0.57 (0.26, 1.24)	0.185	7/245 (2.86)	0.54 (0.22, 1.30)	0.225
GEP PR subgroup	17/245 (6.94)	2.16 (0.95, 4.93)	0.069	**15/245 (6.12)**	**2.94 (1.31, 6.63)**	**0.009**
GEP centrosome index ≥ 3	34/245 (13.9)	2.04 (1.12, 3.73)	0.023	**28/245 (11.4)**	**2.53 (1.37, 4.65)**	**0.004**
GEP proliferation index ≥ 10	18/245 (7.35)	1.89 (0.87, 4.13)	0.120	15/245 (6.12)	2.31 (1.07, 5.00)	0.038
Baseline MRI-FL > 0	**105/270 (38.9)**	**3.67 (2.07, 6.52)**	**<.001**	**76/270 (28.1)**	**3.60 (1.86, 6.97)**	**<.001**
Baseline MRI-FL > 7	**63/270 (23.3)**	**5.00 (2.85, 8.76)**	**<.001**	**51/270 (18.9)**	**5.41 (3.10, 9.43)**	**<.001**
Baseline DHIM	11/ 82 (13.4)	2.26 (0.82, 6.19)	0.125	9/ 82 (11.0)	4.81 (1.33, 17.32)	0.026
Baseline PET-FL > 0	**99/270 (36.7)**	**3.19 (1.86, 5.46)**	**<.001**	**73/270 (27.0)**	**3.46 (1.87, 6.40)**	**<.001**
Baseline PET-FL > 3	**66/270 (24.4)**	**4.01 (2.36, 6.81)**	**<.001**	**52/270 (19.3)**	**4.25 (2.48, 7.29)**	**<.001**
Baseline EMD	7/270 (2.59)	1.00 (0.35, 2.84)	1.000	6/270 (2.22)	1.38 (0.48, 4.01)	0.578
FL-SUV > 3.9 (Bartel)	66/176 (37.5)	1.28 (0.69, 2.37)	0.526	49/176 (27.8)	1.24 (0.66, 2.34)	0.527
FL-SUV > 4.2 (Cavo)	64/176 (36.4)	1.52 (0.83, 2.80)	0.214	49/176 (27.8)	1.65 (0.88, 3.08)	0.122
Baseline Diffuse SUV ≤ 2	39/269 (14.5)	0.89 (0.53, 1.48)	0.696	29/269 (10.8)	1.02 (0.59, 1.75)	1.000

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	Baseline MRI-FL > 0			Baseline MRI-FL > 7			DHIM*		
Independent variable	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**
Albumin < 3.5 g/dL	48/270 (17.8)	0.83 (0.46, 1.48)	0.551	20/270 (7.41)	0.75 (0.42, 1.36)	0.380	8/ 82 (9.76)	0.76 (0.28, 2.07)	0.627
B2M ≥ 3.5 mg/L	86/270 (31.9)	1.19 (0.70, 2.01)	0.594	44/270 (16.3)	1.44 (0.86, 2.41)	0.190	**19/ 82 (23.2)**	**3.80 (1.48, 9.74)**	**0.006**
B2M > 5.5 mg/L	39/270 (14.4)	1.00 (0.53, 1.90)	1.000	21/270 (7.78)	1.35 (0.73, 2.49)	0.341	**13/ 82 (15.9)**	**8.49 (2.44, 29.48)**	**<.001**
CRP ≥ 8 mg/L	69/269 (25.7)	1.70 (0.95, 3.03)	0.092	**40/269 (14.9)**	**2.25 (1.32, 3.83)**	**0.004**	8/ 82 (9.76)	1.02 (0.37, 2.82)	1.000
Hb < 10 g/dL	53/270 (19.6)	0.65 (0.37, 1.12)	0.119	25/270 (9.26)	0.85 (0.48, 1.48)	0.578	14/ 82 (17.1)	1.65 (0.66, 4.12)	0.350
LDH ≥ 190 U/L	51/270 (18.9)	1.32 (0.72, 2.45)	0.448	30/270 (11.1)	1.94 (1.10, 3.42)	0.025	**12/ 82 (14.6)**	**4.74 (1.55, 14.48)**	**0.006**
Platelet count < 150 x 10^9/L	17/270 (6.30)	0.44 (0.21, 0.94)	0.040	7/270 (2.59)	0.55 (0.23, 1.33)	0.228	9/ 82 (11.0)	3.07 (0.97, 9.71)	0.076
Cytogenetic abnormalities	64/270 (23.7)	1.05 (0.61, 1.82)	0.890	36/270 (13.3)	1.64 (0.97, 2.79)	0.074	12/ 82 (14.6)	1.52 (0.59, 3.88)	0.469
GEP-70 high risk	**33/245 (13.5)**	**4.18 (1.43, 12.28)**	**0.006**	**20/245 (8.16)**	**3.19 (1.56, 6.53)**	**0.002**	3/ 74 (4.05)	5.75 (0.57, 58.30)	0.135
GEP-80 high risk	14/245 (5.71)	3.21 (0.71, 14.50)	0.159	**11/245 (4.49)**	**5.55 (1.86, 16.60)**	**0.002**	Not Estimable		
GEP del TP53	21/245 (8.57)	1.34 (0.54, 3.30)	0.663	9/245 (3.67)	1.06 (0.46, 2.47)	1.000	4/ 74 (5.41)	2.55 (0.53, 12.38)	0.250
GEP CD-1 subgroup	10/245 (4.08)	2.24 (0.48, 10.47)	0.519	5/245 (2.04)	1.63 (0.50, 5.31)	0.523	1/ 74 (1.35)	1.77 (0.11, 29.48)	1.000
GEP CD-2 subgroup	16/245 (6.53)	0.48 (0.22, 1.07)	0.085	6/245 (2.45)	0.54 (0.21, 1.40)	0.285	6/ 74 (8.11)	1.63 (0.49, 5.48)	0.529
GEP HY subgroup	59/245 (24.1)	1.25 (0.69, 2.25)	0.554	23/245 9.39)	0.83 (0.46, 1.49)	0.560	4/ 74 (5.41)	0.28 (0.08, 0.94)	0.038
GEP LB subgroup	24/245 (9.80)	0.47 (0.24, 0.93)	0.043	9/245 (3.67)	0.53 (0.24, 1.18)	0.146	7/ 74 (9.46)	1.02 (0.35, 3.01)	1.000
GEP MF subgroup	14/245 (5.71)	0.85 (0.33, 2.21)	0.805	5/245 (2.04)	0.67 (0.24, 1.91)	0.623	4/ 74 (5.41)	2.55 (0.53, 12.38)	0.250
GEP MS subgroup	23/245 (9.39)	1.12 (0.49, 2.56)	0.840	11/245 (4.49)	1.19 (0.54, 2.62)	0.684	4/ 74 (5.41)	1.46 (0.36, 5.98)	0.716
GEP PR subgroup	**25/245 (10.2)**	**6.16 (1.42, 26.75)**	**0.006**	**17/245 (6.94)**	**4.58 (1.99, 10.57)**	**<.001**	1/ 74 (1.35)	1.77 (0.11, 29.48)	1.000
GEP centrosome index ≥ 3	45/245 (18.4)	1.85 (0.91, 3.74)	0.100	**27/245 (11.0)**	**2.55 (1.38, 4.72)**	**0.003**	2/ 74 (2.70)	0.30 (0.06, 1.47)	0.191
GEP proliferation index ≥ 10	26/245 (10.6)	3.14 (1.05, 9.34)	0.034	**17/245 (6.94)**	**3.46 (1.58, 7.56)**	**0.003**	2/ 74 (2.70)	1.80 (0.24, 13.57)	0.620
Baseline MBS-OL > 0	**105/270 (38.9)**	**3.67 (2.07, 6.52)**	**<.001**	**63/270 (23.3)**	**5.00 (2.85, 8.76)**	**<.001**	11/ 82 (13.4)	2.26 (0.82, 6.19)	0.125
Baseline MBS-OL > 2	**76/270 (28.1)**	**3.60 (1.86, 6.97)**	**<.001**	**51/270 (18.9)**	**5.41 (3.10, 9.43)**	**<.001**	9/ 82 (11.0)	4.81 (1.33, 17.32)	0.026
Baseline PET-FL > 0	**154/270 (57.0)**	**12.35 (6.69, 22.82)**	**<.001**	**75/270 (27.8)**	**5.07 (2.58, 9.97)**	**<.001**	12/ 82 (14.6)	2.59 (0.95, 7.04)	0.074
Baseline PET-FL > 3	**93/270 (34.4)**	**19.09 (6.72, 54.26)**	**<.001**	**58/270 (21.5)**	**7.38 (4.18, 13.05)**	**<.001**	3/ 82 (3.66)	5.36 (0.53, 53.97)	0.149
Baseline EMD	10/270 (3.70)	0.87 (0.29, 2.62)	0.778	7/270 (2.59)	1.91 (0.67, 5.46)	0.258	1/ 82 (1.22)	0.39 (0.04, 3.67)	0.645
FL-SUV > 3.9 (Bartel)	100/176 (56.8)	1.28 (0.51, 3.19)	0.638	51/176 (29.0)	1.34 (0.71, 2.51)	0.427	8/ 22 (36.4)	2.00 (0.36, 11.23)	0.666
FL-SUV > 4.2 (Cavo)	93/176 (52.8)	1.06 (0.43, 2.62)	1.000	50/176 (28.4)	1.61 (0.86, 2.99)	0.161	8/ 22 (36.4)	2.00 (0.36, 11.23)	0.666
Baseline diffuse SUV ≤ 2	64/269 (23.8)	1.33 (0.76, 2.36)	0.396	29/269 (10.8)	1.07 (0.62, 1.84)	0.889	4/ 82 (4.88)	0.25 (0.08, 0.82)	0.022

*DHIM comparisons limited to those with no MRI FL.

	Baseline PET-FL > 0			Baseline PET-FL > 3			FL-SUV** > 3.9 (Bartel)		
Independent variable	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**
Albumin < 3.5 g/dL	44/270 (16.3)	0.79 (0.45, 1.37)	0.470	24/270 (8.89)	0.86 (0.48, 1.51)	0.668	25/176 (14.2)	0.66 (0.33, 1.32)	0.277
B2M ≥ 3.5 mg/L	88/270 (32.6)	1.94 (1.15, 3.26)	0.015	53/270 (19.6)	1.91 (1.15, 3.15)	0.015	62/176 (35.2)	1.73 (0.93, 3.23)	0.116
B2M > 5.5 mg/L	41/270 (15.2)	1.60 (0.83, 3.07)	0.207	28/270 (10.4)	2.10 (1.16, 3.82)	0.019	31/176 (17.6)	2.00 (0.91, 4.42)	0.096
CRP ≥ 8 mg/L	**70/269 (26.0)**	**2.47 (1.38, 4.40)**	**0.002**	**44/269 (16.4)**	**2.34 (1.38, 3.95)**	**0.002**	45/175 (25.7)	1.02 (0.54, 1.92)	1.000
Hb < 10 g/dL	54/270 (20.0)	0.94 (0.55, 1.62)	0.890	32/270 (11.9)	1.15 (0.67, 1.95)	0.681	35/176 (19.9)	1.04 (0.53, 2.03)	1.000
LDH ≥ 190 U/L	51/270 (18.9)	1.72 (0.94, 3.17)	0.081	**34/270 (12.6)**	**2.13 (1.22, 3.72)**	**0.009**	36/176 (20.5)	1.50 (0.74, 3.02)	0.301
Platelet count < 150 x 10^9/L	19/270 (7.04)	0.75 (0.35, 1.60)	0.554	12/270 (4.44)	1.08 (0.50, 2.32)	0.846	15/176 (8.52)	2.26 (0.72, 7.12)	0.208
Cytogenetic abnormalities	67/270 (24.8)	1.79 (1.03, 3.12)	0.043	37/270 (13.7)	1.36 (0.81, 2.29)	0.284	42/176 (23.9)	0.90 (0.48, 1.69)	0.749
GEP-70 high risk	**32/245 (13.1)**	**4.34 (1.62, 11.58)**	**0.001**	**23/245 (9.39)**	**3.70 (1.79, 7.65)**	**<.001**	**28/156 (17.9)**	**4.73 (1.56, 14.31)**	**0.003**
GEP-80 high risk	14/245 (5.71)	4.29 (0.95, 19.33)	0.057	10/245 (4.08)	3.29 (1.15, 9.39)	0.029	13/156 (8.33)	7.74 (0.98, 60.87)	0.035
GEP del TP53	20/245 (8.16)	1.49 (0.63, 3.54)	0.411	9/245 (3.67)	0.84 (0.36, 1.96)	0.835	11/156 (7.05)	0.60 (0.23, 1.56)	0.321
GEP CD-1 subgroup	11/245 (4.49)	6.68 (0.85, 52.60)	0.060	5/245 (2.04)	1.32 (0.40, 4.28)	0.759	6/156 (3.85)	0.61 (0.18, 2.11)	0.515
GEP CD-2 subgroup	14/245 (5.71)	0.49 (0.22, 1.06)	0.098	9/245 (3.67)	0.80 (0.35, 1.83)	0.682	9/156 (5.77)	0.95 (0.30, 2.99)	1.000
GEP HY subgroup	51/245 (20.8)	0.96 (0.55, 1.66)	0.888	28/245 (11.4)	0.94 (0.54, 1.64)	0.888	37/156 (23.7)	1.63 (0.78, 3.38)	0.213
GEP LB subgroup	**19/245 (7.76)**	**0.38 (0.19, 0.73)**	**0.005**	8/245 (3.27)	0.36 (0.16, 0.81)	0.013	11/156 (7.05)	0.70 (0.26, 1.85)	0.454
GEP MF subgroup	16/245 (6.53)	1.92 (0.68, 5.43)	0.244	11/245 (4.49)	2.14 (0.87, 5.27)	0.100	13/156 (8.33)	2.48 (0.68, 9.13)	0.266
GEP MS subgroup	20/245 (8.16)	0.94 (0.44, 2.03)	1.000	8/245 (3.27)	0.57 (0.24, 1.32)	0.235	10/156 (6.41)	0.48 (0.19, 1.23)	0.136
GEP PR subgroup	**25/245 (10.2)**	**8.30 (1.92, 35.95)**	**<.001**	**18/245 (7.35)**	**4.32 (1.85, 10.10)**	**<.001**	16/156 (10.3)	0.93 (0.38, 2.27)	1.000
GEP centrosome index ≥ 3	43/245 (17.6)	2.04 (1.04, 3.98)	0.041	**29/245 (11.8)**	**2.32 (1.27, 4.25)**	**0.007**	28/156 (17.9)	0.98 (0.47, 2.06)	1.000
GEP proliferation index ≥ 10	**27/245 (11.0)**	**6.00 (1.77, 20.40)**	**<.001**	**19/245 (7.76)**	**3.73 (1.68, 8.28)**	**0.001**	22/156 (14.1)	2.70 (0.96, 7.58)	0.074
Baseline MBS OL > 0	**99/270 (36.7)**	**3.19 (1.86, 5.46)**	**<.001**	**66/270 (24.4)**	**4.01 (2.36, 6.81)**	**<.001**	66/176 (37.5)	1.28 (0.69, 2.37)	0.526
Baseline MBS OL > 2	**73/270 (27.0)**	**3.46 (1.87, 6.40)**	**<.001**	**52/270 (19.3)**	**4.25 (2.48, 7.29)**	**<.001**	49/176 (27.8)	1.24 (0.66, 2.34)	0.527
Baseline MRI-FL > 0	**154/270 (57.0)**	**12.35 (6.69, 22.82)**	**<.001**	**93/270 (34.4)**	**19.09 (6.72, 54.26)**	**<.001**	100/176 (56.8)	1.28 (0.51, 3.19)	0.638
Baseline MRI-FL > 7	**75/270 (27.8)**	**5.07 (2.58, 9.97)**	**<.001**	**58/270 (21.5)**	**7.38 (4.18, 13.05)**	**<.001**	51/176 (29.0)	1.34 (0.71, 2.51)	0.427
Baseline DHIM	12/ 82 (14.6)	2.59 (0.95, 7.04)	0.074	3/ 82 (3.66)	5.36 (0.53, 53.97)	0.149	8/ 22 (36.4)	2.00 (0.36, 11.23)	0.666
Baseline PET-FL > 0	Not Estimable			Not Estimable			Not Estimable		
Baseline PET-FL > 3	Not Estimable			Not Estimable			**77/176 (43.8)**	**4.60 (2.37, 8.91)**	**<.001**
Baseline EMD	13/270 (4.81)	3.67 (0.81, 16.62)	0.095	9/270 (3.33)	2.85 (0.98, 8.26)	0.055	10/176 (5.68)	1.94 (0.51, 7.33)	0.383
FL-SUV > 3.9 (Bartel)	Not Estimable			**77/176 (43.8)**	**4.60 (2.37, 8.91)**	**<.001**	Not Estimable		
FL-SUV > 4.2 (Cavo)	Not Estimable			**75/176 (42.6)**	**5.28 (2.74, 10.17)**	**<.001**	Not Estimable		
Baseline Diffuse SUV ≤ 2	54/269 (20.1)	0.80 (0.47, 1.37)	0.493	28/269 (10.4)	0.78 (0.45, 1.33)	0.416	**20/176 (11.4)**	**0.18 (0.09, 0.37)**	**<.001**

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	Baseline EMD			Diffuse SUV ≤ 2		
Independent variable	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**	**n/N (%)**	**Odds ratio (95% CI)**	***p*-value**
Albumin < 3.5 g/dL	8/270 (2.96)	3.41 (1.19, 9.78)	0.030	23/269 (8.55)	1.00 (0.56, 1.79)	1.000
B2M ≥ 3.5 mg/L	11/270 (4.07)	3.68 (1.14, 11.88)	0.030	35/269 (13.0)	0.79 (0.47, 1.32)	0.431
B2M > 5.5 mg/L	**10/270 (3.70)**	**9.09 (2.96, 27.85)**	**<.001**	12/269 (4.46)	0.52 (0.26, 1.04)	0.075
CRP ≥ 8 mg/L	8/269 (2.97)	2.40 (0.84, 6.84)	0.156	33/268 (12.3)	1.33 (0.78, 2.27)	0.334
Hb < 10 g/dL	9/270 (3.33)	3.60 (1.24, 10.47)	0.020	29/269 (10.8)	1.15 (0.67, 1.99)	0.673
LDH ≥ 190 U/L	8/270 (2.96)	3.63 (1.27, 10.43)	0.027	27/269 (10.0)	1.55 (0.87, 2.74)	0.137
Platelet count < 150 x 10^9/L	4/270 (1.48)	2.95 (0.88, 9.88)	0.087	9/269 (3.35)	0.80 (0.35, 1.81)	0.689
Cytogenetic abnormalities	5/270 (1.85)	0.98 (0.33, 2.96)	1.000	39/269 (14.5)	2.03 (1.19, 3.45)	0.013
GEP-70 high risk	2/245 (0.82)	1.26 (0.26, 6.10)	0.674	9/244 (3.69)	0.63 (0.28, 1.41)	0.340
GEP-80 high risk	1/245 (0.41)	1.46 (0.18, 12.18)	0.532	5/244 (2.05)	0.95 (0.32, 2.82)	1.000
GEP del TP53	2/245 (0.82)	1.78 (0.36, 8.68)	0.365	7/244 (2.87)	0.67 (0.27, 1.64)	0.520
GEP CD-1 subgroup	Not Estimable			5/244 (2.05)	1.53 (0.47, 4.97)	0.532
GEP CD-2 subgroup	1/245 (0.41)	0.74 (0.09, 5.97)	1.000	5/244 (2.05)	0.40 (0.15, 1.08)	0.089
GEP HY subgroup	2/245 (0.82)	0.44 (0.09, 2.07)	0.347	28/244 (11.5)	1.19 (0.68, 2.10)	0.562
GEP LB subgroup	1/245 (0.41)	0.46 (0.06, 3.67)	0.695	15/244 (6.15)	1.15 (0.57, 2.30)	0.721
GEP MF subgroup	1/245 (0.41)	1.07 (0.13, 8.79)	1.000	5/244 (2.05)	0.63 (0.22, 1.78)	0.470
GEP MS subgroup	2/245 (0.82)	1.51 (0.31, 7.33)	0.641	11/244 (4.51)	1.11 (0.51, 2.43)	0.840
GEP PR subgroup	4/245 (1.63)	5.24 (1.43, 19.27)	0.023	10/244 (4.10)	1.26 (0.55, 2.90)	0.663
GEP centrosome index ≥ 3	4/245 (1.63)	1.95 (0.55, 6.92)	0.287	23/244 (9.43)	1.58 (0.86, 2.93)	0.149
GEP proliferation index ≥ 10	1/245 (0.41)	0.71 (0.09, 5.73)	1.000	9/244 (3.69)	0.88 (0.38, 2.02)	0.838
Baseline MBS-OL > 0	7/270 (2.59)	1.00 (0.35, 2.84)	1.000	39/269 (14.5)	0.89 (0.53, 1.48)	0.696
Baseline MBS-OL > 2	6/270 (2.22)	1.38 (0.48, 4.01)	0.578	29/269 (10.8)	1.02 (0.59, 1.75)	1.000
Baseline MRI-FL > 0	10/270 (3.70)	0.87 (0.29, 2.62)	0.778	64/269 (23.8)	1.33 (0.76, 2.36)	0.396
Baseline MRI-FL > 7	7/270 (2.59)	1.91 (0.67, 5.46)	0.258	29/269 (10.8)	1.07 (0.62, 1.84)	0.889
Baseline DHIM	1/ 82 (1.22)	0.39 (0.04, 3.67)	0.645	4/ 82 (4.88)	0.25 (0.08, 0.82)	0.022
Baseline PET-FL > 0	13/270 (4.81)	3.67 (0.81, 16.62)	0.095	54/269 (20.1)	0.80 (0.47, 1.37)	0.493
Baseline PET-FL > 3	9/270 (3.33)	2.85 (0.98, 8.26)	0.055	28/269 (10.4)	0.78 (0.45, 1.33)	0.416
Baseline EMD	Not Estimable			4/269 (1.49)	0.75 (0.23, 2.42)	0.780
FL-SUV > 3.9 (Bartel)	10/176 (5.68)	1.94 (0.51, 7.33)	0.383	**20/176 (11.4)**	**0.18 (0.09, 0.37)**	**<.001**
FL-SUV > 4.2 (Cavo)	10/176 (5.68)	2.33 (0.62, 8.77)	0.249	**19/176 (10.8)**	**0.22 (0.11, 0.43)**	**<.001**
Baseline Diffuse SUV ≤ 2	4/269 (1.49)	0.75 (0.23, 2.42)	0.780	Not Estimable		

Online Supplementary Table S2. List of examined gene probes.

A. Bone-related genes

Bone-related probes	
Gene name	**Probe**
CCL3	205114_s_at
CST6	206595_at
	231248_at
DKK1	204602_at
FRZB	203697_ t
	203698_s_at
	231273_x_at
	244419_at
GFI1	206589_at
IL6	205207_at
LRP1	1555353_at
	1569042_at
	200784_s_at
	200785_s_at
LRP1B	219643_at
	234184_at
	234209_at
LRP2	205710_at
LRP2BP	207797_s_at
LRP3	204381_at
LRP4	212850_s_at
	237146_at
LRP5	209468_at
	229591_at
LRP5L	1561076_at
	214873_at
	239558_at
LRP6	205606_at
	225745_at
	34697_at
LRP8	1566902_at
	1566903_at
	1569933_at
	205282_at
	208433_s_at

Bone-related probes	
Gene name	**Probe**
LRP10	201412_at
	227252_at
	231861_at
LRP11	1561180_at
	225060_at
LRP12	219631_at
	220253_s_at
	220254_at
LRP16	1559731_x_at
	1562624_at
	219188_s_at
LRPAP1	201186_at
LRPPRC	1557360_at
	211615_s_at
	211971_s_at
	230594_at
PTHLH	1556773_at
	206300_s_at
	210355_at
	211756_at
SFRP2	223121_s_at
	223122_s_at
TNFRSF11B	204932_at
	204933_s_at
TNFSF11	210643_at
	211153_s_at
	241248_at
WNT10A	223709_s_at
	229154_at
WNT10B	206213_at

B. GEP-70 probes

GEP-70 probes	
Gene name	**Probe**
--	227278_at
--	227547_at
--	237964_at
--	242488_at
AD-020	222495_at
AHCYL1	200850_s_at
AIM2	206513_at
ALDOA	200966_x_at
ASPM	219918_s_at
BIRC5	210334_x_at
C6orf173	226936_at
CBX3	201091_s_at
CCT2	201947_s_at
CKAP1	216194_s_at
CKS1B	201897_s_at
CPSF3	225082_at
CTBS	218924_s_at
DKFZP586L0	221970_s_at
DKFZp779O1	238952_x_at
DSG2	217901_at
EIF2C2	213310_at
ENO1	201231_s_at
EVI5	209717_at
EXOSC4	58696_at
FABP5	202345_s_at
FLJ13052	213607_x_at
FLJ20489	48106_at
FUCA1	202838_at
GNG10	201921_at
IFI16	206332_s_at
ILF3	208931_s_at
KIAA1754	225582_at
KIF14	206364_at
LARS2	204016_at
LAS1L	208117_s_at

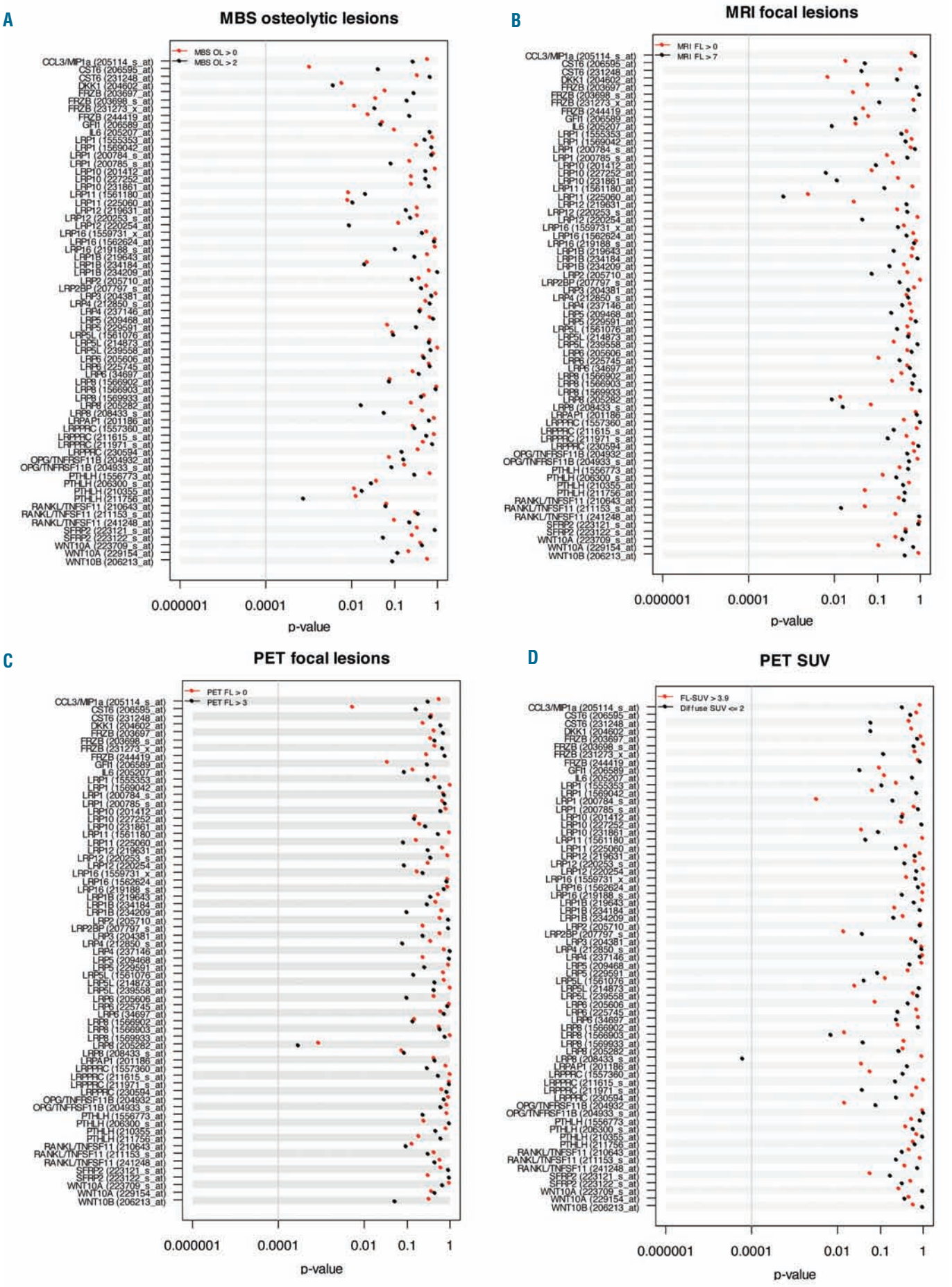
GEP-70 probes	
Gene name	**Probe**
LGALS1	201105_at
LTBP1	202729_s_at
MCLC	213628_at
MGC15606	243011_at
MGC4308	224523_s_at
MGC57827	225834_at
MPHOSPH1	205235_s_at
NA	1557277_a_at
OPN3	1565951_s_at
PAPD1	218947_s_at
PARG1	1554736_at
PDHA1	1555864_s_at
PFN1	200634_at
PNPLA4	209740_s_at
PSMD4	210460_s_at
RAD18	224200_s_at
RAN	200750_s_at
RFC4	204023_at
RFP2	230192_at
ROBO1	213194_at
RUVBL1	201614_s_at
SELI	1555274_a_at
SLC19A1	211576_s_at
SNX5	222417_s_at
STK6	204092_s_at
TAGLN2	200916_at
TBRG4	220789_s_at
TCOF1	244686_at
TMPO	203432_at
TRIM33	212435_at
TRIP13	204033_at
UBE2I	213535_s_at
UBE2R2	226954_at
WEE1	212533_at
YWHAZ	200638_s_at

Online Supplementary Table S3. *P* values for comparisons in *Online Supplementary Figure S1*. (Significant *P* values are highlighted in yellow.)

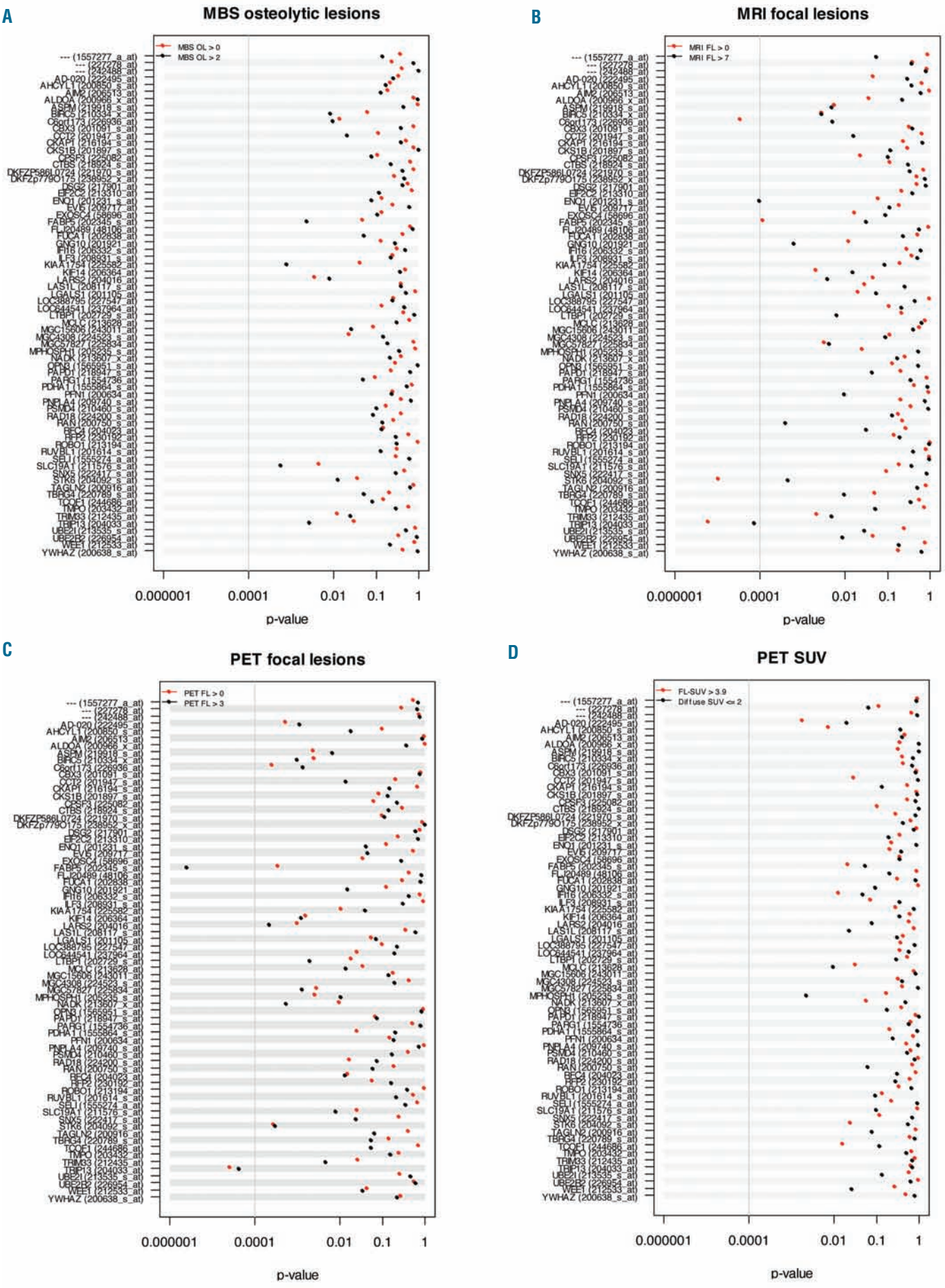
	p-values							
Gene name (probe)	*Diff. SUV ≤2*	*FL-SUV > 3.9*	*MBS-OL > 0*	*MBS-OL > 2*	*MRI-FL > 0*	*MRI-FL > 7*	*PET-FL > 0*	*PET-FL > 3*
CCL3/MIP1a (205114_s_at)	0.31579	0.82894	0.58373	0.26077	0.62492	0.76409	0.55490	0.30192
CST6 (206595_at)	0.49319	0.67925	0.00103	0.04025	0.01780	0.05120	0.00536	0.16161
CST6 (231248_at)	0.05824	0.45063	0.33646	0.64660	0.33997	0.04238	0.36429	0.34817
DKK1 (204602_at)	0.05967	0.51687	0.00563	0.00369	0.00698	0.29308	0.23468	0.59265
FRZB (203697_at)	0.73517	0.86687	0.05952	0.28169	0.05866	0.83634	0.41809	0.69240
FRZB (203698_s_at)	0.59533	0.99406	0.03593	0.18919	0.02746	0.93942	0.34242	0.44102
FRZB (231273_x_at)	0.11571	0.62687	0.01153	0.03373	0.68587	0.11244	0.43058	0.65458
FRZB (244419_at)	0.84402	0.74587	0.02318	0.22147	0.04596	0.71918	0.27080	0.75880
GFI1 (206589_at)	0.03189	0.09259	0.05038	0.04600	0.06052	0.03175	0.03330	0.29579
IL6 (205207_at)	0.53698	0.12122	0.09598	0.66326	0.03072	0.00866	0.13061	0.08443
LRP1 (1555353_at)	0.10827	0.23397	0.74959	0.49678	0.48089	0.37000	0.43774	0.30502
LRP1 (1569042_at)	0.68751	0.06464	0.31292	0.70990	0.62979	0.44955	0.97458	0.56558
LRP1 (200784_s_at)	0.19469	0.00316	0.77370	0.71062	0.59195	0.74779	0.69455	0.70775
LRP1 (200785_s_at)	0.75940	0.60981	0.21914	0.08207	0.16872	0.49272	0.65214	0.75379
LRP10 (201412_at)	0.31486	0.33464	0.86929	0.51958	0.23028	0.09336	0.78146	0.61366
LRP10 (227252_at)	0.90511	0.29693	0.24638	0.52458	0.07288	0.00625	0.15537	0.14508
LRP10 (231861_at)	0.09023	0.03515	0.23836	0.62535	0.29897	0.01139	0.19460	0.26963
LRP11 (1561180_at)	0.04576	0.94209	0.00840	0.02059	0.66293	0.14519	0.94695	0.52492
LRP11 (225060_at)	0.23511	0.38848	0.00783	0.01028	0.00238	0.00063	0.16371	0.08027
LRP12 (219631_at)	0.63208	0.84495	0.33104	0.18693	0.02837	0.48416	0.67048	0.30280
LRP12 (220253_s_at)	0.36328	0.63880	0.33556	0.23106	0.28904	0.51196	0.86161	0.35450
LRP12 (220254_at)	0.68823	0.99851	0.12403	0.00881	0.86205	0.04472	0.29732	0.08291
LRP16 (1559731_x_at)	0.64872	0.40613	0.55066	0.43794	0.42537	0.30716	0.17033	0.22578
LRP16 (1562624_at)	0.74615	0.97326	0.86431	0.82204	0.68443	0.47327	0.87046	0.82849
LRP16 (219188_s_at)	0.32238	0.96286	0.85153	0.10125	0.78040	0.70973	0.85940	0.73739
LRP1B (219643_at)	0.60746	0.93172	0.56706	0.29476	0.66862	0.23798	0.51238	0.34238
LRP1B (234184_at)	0.82360	0.21342	0.02291	0.02012	0.61868	0.85618	0.45283	0.28674
LRP1B (234209_at)	0.20213	0.32539	0.61578	0.98313	0.41518	0.19066	0.63200	0.09567
LRP2 (205710_at)	0.81005	0.86980	0.36925	0.25191	0.49568	0.07221	0.57453	0.92496
LRP2BP (207797_s_at)	0.03709	0.01373	0.53805	0.41888	0.97259	0.33179	0.22955	0.90628
LRP3 (204381_at)	0.66414	0.52170	0.89569	0.70633	0.72304	0.51322	0.58030	0.23605
LRP4 (212850_s_at)	0.90357	0.90659	0.51620	0.64453	0.47541	0.52777	0.34673	0.07675
LRP4 (237146_at)	0.83341	0.94802	0.39383	0.38699	0.57175	0.37838	0.71263	0.98572
LRP5 (209468_at)	0.47025	0.91988	0.65054	0.77676	0.63819	0.20805	0.22811	0.95043
LRP5 (229591_at)	0.08310	0.42859	0.06846	0.31749	0.60148	0.77675	0.92310	0.25559
LRP5L (1561076_at)	0.04066	0.12761	0.08983	0.09349	0.50316	0.28686	0.69455	0.14250
LRP5L (214873_at)	0.80404	0.02529	0.66756	0.62195	0.54406	0.52078	0.71893	0.43990
LRP5L (239558_at)	0.72279	0.58652	0.97331	0.67727	0.24589	0.88379	0.98878	0.41145
LRP6 (205606_at)	0.43071	0.07317	0.45459	0.48409	0.49630	0.62198	0.42676	0.09909
LRP6 (225745_at)	0.25276	0.68334	0.62600	0.65214	0.10633	0.32792	0.94993	0.87501
LRP6 (34697_at)	0.23473	0.76854	0.26335	0.36574	0.50129	0.56404	0.60819	0.73668
LRP8 (1566902_at)	0.76753	0.24741	0.07576	0.07522	0.36696	0.70900	0.14658	0.13350
LRP8 (1566903_at)	0.00687	0.01439	0.92723	0.91732	0.22014	0.65188	0.55238	0.56622
LRP8 (1569933_at)	0.03907	0.35557	0.48007	0.40954	0.63889	0.98134	0.97981	0.76598
LRP8 (205282_at)	0.26669	0.33092	0.24564	0.01618	0.01359	0.00869	0.00084	0.00028
LRP8 (208433_s_at)	*0.00006*	0.88743	0.44484	0.05727	0.07071	0.01575	0.07240	0.08426
LRPAP1 (201186_at)	0.40838	0.03532	0.82538	0.62944	0.77588	0.81812	0.41058	0.44438
LRPPRC (1557360_at)	0.32762	0.05529	0.26568	0.29478	0.41743	0.98134	0.78650	0.29405
LRPPRC (211615_s_at)	0.22018	0.97623	0.84515	0.54482	0.81755	0.23838	0.97757	0.51453
LRPPRC (211971_s_at)	0.03762	0.69983	0.46337	0.75548	0.47299	0.17873	0.95068	0.96769
LRPPRC (230594_at)	0.22980	0.56116	0.34795	0.14721	0.69673	0.91542	0.63534	0.84173
OPG/TNFRSF11B (204932_at)	0.07676	0.01424	0.07268	0.16138	0.71057	0.50136	0.90674	0.73313
OPG/TNFRSF11B (204933_s_at)	0.99459	0.93468	0.16988	0.08482	0.86591	0.53736	0.84104	0.61101
PTHLH (1556773_at)	0.82888	0.52170	0.64405	0.29125	0.32722	0.53608	0.83079	0.22651
PTHLH (206300_s_at)	0.57006	0.38034	0.03747	0.02786	0.13539	0.28073	0.24139	0.93769
PTHLH (210355_at)	0.96908	0.69157	0.01132	0.01692	0.53950	0.40532	0.77499	0.45001
PTHLH (211756_at)	0.61495	0.58397	0.01264	0.00073	0.05122	0.42881	0.18140	0.59395
RANKL/TNFSF11 (210643_at)	0.32238	0.46190	0.06444	0.06290	0.32239	0.40863	0.12544	0.09289
RANKL/TNFSF11 (211153_s_at)	0.23434	0.83039	0.31033	0.34131	0.05228	0.01430	0.41165	0.30413
RANKL/TNFSF11 (241248_at)	0.72933	0.35848	0.09580	0.21750	0.26308	0.96114	0.57645	0.44550
SFRP2 (223121_s_at)	0.16693	0.05672	0.33828	0.84605	0.95381	0.91000	0.59125	0.91075
SFRP2 (223122_s_at)	0.32191	0.49778	0.25270	0.05360	0.45918	0.45660	0.30257	0.92720
WNT10A (223709_s_at)	0.95980	0.27018	0.40344	0.44193	0.26350	0.38903	0.93427	0.66619
WNT10A (229154_at)	0.36790	0.44952	0.20848	0.11406	0.10676	0.69671	0.35788	0.43379
WNT10B (206213_at)	0.94514	0.58141	0.57322	0.08943	0.88991	0.42825	0.31867	0.05155

Online Supplementary Table S4. *P* values for comparisons in *Online Supplementary Figure S2* (Significant *P* values are highlighted in yellow.)

	p-values							
Gene name (probe)	*Diff. SUV ≤2*	*FL-SUV > 3.9*	*MBS-OL > 0*	*MBS-OL > 2*	*MRI-FL > 0*	*MRI-FL > 7*	*PET-FL > 0*	*PET-FL > 3*
--- (1557277_a_at)	0.86303	0.91841	0.35969	0.13830	0.87441	0.05430	0.53128	0.70146
--- (227278_at)	0.06428	0.11085	0.23336	0.75840	0.37907	0.36072	0.27285	0.64983
--- (242488_at)	0.90127	0.65352	0.39034	0.97930	0.82213	0.80075	0.73088	0.75450
AD-020 (222495_at)	0.02006	0.00175	0.33420	0.25270	0.04396	0.28642	0.00052	0.00112
AHCYL1 (200850_s_at)	0.36791	0.00732	0.21443	0.16662	0.62770	0.36277	0.09602	0.01784
AIM2 (206513_at)	0.40073	0.45288	0.18141	0.12597	0.92726	0.58865	0.96935	0.88467
ALDOA (200966_x_at)	0.98222	0.34027	0.77093	0.94330	0.03514	0.21590	0.99103	0.36488
ASPM (219918_s_at)	0.97217	0.32265	0.96466	0.43737	0.00553	0.00486	0.00231	0.00654
BIRC5 (210334_x_at)	0.73298	0.39570	0.06150	0.00817	0.00276	0.00283	0.00247	0.00097
C6orf173 (226936_at)	0.67685	0.42103	0.01347	0.00948	*0.00003*	0.00498	0.00025	0.00134
CBX3 (201091_s_at)	0.84175	0.84641	0.76403	0.37292	0.32095	0.37471	0.80313	0.74379
CCT2 (201947_s_at)	0.94051	0.02796	0.11111	0.02022	0.62631	0.01550	0.19719	0.01352
CKAP1 (216194_s_at)	0.13377	0.52170	0.50863	0.37810	0.22574	0.64557	0.64472	0.14691
CKS1B (201897_s_at)	0.89973	0.88449	0.75370	1.00000	0.28415	0.11806	0.07951	0.13228
CPSF3 (225082_at)	0.81983	0.52899	0.10633	0.07875	0.02229	0.10082	0.06297	0.21795
CTBS (218924_s_at)	0.98222	0.10355	0.62152	0.22147	0.11176	0.30625	0.28958	0.14072
DKFZP586L0724 (221970_s_at)	0.84326	0.27836	0.74274	0.42667	0.68949	0.33374	0.09714	0.11143
DKFZp779O175 (238952_x_at)	0.41501	0.61635	0.26762	0.45400	0.48764	0.73968	0.86677	0.99324
DSG2 (217901_at)	0.74762	0.85516	0.54284	0.41889	0.46997	0.77675	0.75925	0.60443
EIF2C2 (213310_at)	0.18974	0.35363	0.70010	0.11584	0.20608	0.37523	0.22738	0.68477
ENO1 (201231_s_at)	0.85010	0.21966	0.13572	0.07585	0.05788	*0.00010*	0.11976	0.04124
EVI5 (209717_at)	0.38463	0.19679	0.24162	0.61315	0.18671	0.10982	0.51361	0.04554
EXOSC4 (58696_at)	0.35064	0.34027	0.13336	0.10719	0.01647	0.08834	0.03417	0.27873
FABP5 (202345_s_at)	0.05400	0.02040	0.04677	0.00226	0.00012	0.03083	0.00034	*0.000002*
FLJ20489 (48106_at)	0.20248	0.88155	0.64210	0.73077	0.88991	0.53672	0.42133	0.82409
FUCA1 (202838_at)	0.82435	0.30388	0.41164	0.05219	0.51071	0.23606	0.28618	0.78908
GNG10 (201921_at)	0.09435	0.95989	0.12716	0.27530	0.01177	0.00062	0.11976	0.01529
IFI16 (206332_s_at)	0.04726	0.01230	0.30947	0.48049	0.27933	0.61100	0.75568	0.41253
ILF3 (208931_s_at)	0.35164	0.06966	0.23765	0.22513	0.37167	0.50013	0.91789	0.29841
KIAA1754 (225582_at)	0.76827	0.27507	0.04091	0.00078	0.18802	0.08371	0.01018	0.03977
KIF14 (206364_at)	0.35314	0.58781	0.47671	0.35966	0.00202	0.01473	0.00150	0.00122
LARS2 (204016_at)	0.07905	0.57886	0.00351	0.00794	0.04490	0.00379	0.00096	0.00022
LAS1L (208117_s_at)	0.02310	0.76143	0.38537	0.38490	0.02788	0.25711	0.35495	0.59070
LGALS1 (201105_at)	0.30562	0.42535	0.82679	0.50719	0.01999	0.05491	0.05423	0.07113
LOC388795 (227547_at)	0.79730	0.35946	0.25496	0.23825	0.96789	0.44432	0.09886	0.21971
LOC644541 (237964_at)	0.57468	0.34978	0.13643	0.46508	0.10848	0.21159	0.02497	0.19045
LTBP1 (202729_s_at)	0.29477	0.51326	0.44268	0.79672	0.20713	0.00625	0.01787	0.00191
MCLC (213628_at)	0.00942	0.03044	0.60123	0.29656	0.75341	0.62888	0.03401	0.01360
MGC15606 (243011_at)	0.84251	0.76569	0.08449	0.02640	0.54210	0.39333	0.17268	0.13945
MGC4308 (224523_s_at)	0.40674	0.31631	0.02275	0.14428	0.11354	0.08980	0.42133	0.18918
MGC57827 (225834_at)	0.96753	0.39363	0.73864	0.18790	0.00316	0.00415	0.00280	0.00131
MPHOSPH1 (205235_s_at)	0.00226	0.17042	0.84020	0.35265	0.02451	0.51385	0.00259	0.01030
NADK (213607_x_at)	0.47743	0.05673	0.38192	0.21323	0.24911	0.16646	0.00969	0.00054
OPN3 (1565951_s_at)	0.17420	0.38135	0.27870	0.92877	0.12859	0.53096	0.89116	0.81311
PAPD1 (218947_s_at)	0.97680	0.83039	0.21813	0.63903	0.20502	0.04279	0.06622	0.07551
PARG1 (1554736_at)	0.56874	0.62687	0.09138	0.04868	0.82595	0.35309	0.50399	0.78691
PDHA1 (1555864_s_at)	0.88747	0.20332	0.70479	0.53592	0.41856	0.85083	0.02516	0.20453
PFN1 (200634_at)	0.23818	0.73462	0.24198	0.22586	0.88913	0.00949	0.14373	0.18106
PNPLA4 (209740_s_at)	0.93743	0.50134	0.38340	0.67165	0.20292	0.74115	0.94247	0.73739
PSMD4 (210460_s_at)	0.53442	0.62292	0.16737	0.09946	0.34497	0.92083	0.40316	0.16996
RAD18 (224200_s_at)	0.80704	0.93320	0.37995	0.08516	0.17208	0.12678	0.01605	0.07504
RAN (200750_s_at)	0.06208	0.70121	0.25458	0.13933	0.22125	0.00039	0.18448	0.05883
RFC4 (204023_at)	0.29835	0.83475	0.14899	0.13627	0.26984	0.03068	0.01482	0.01310
RFP2 (230192_at)	0.27173	0.59167	0.57199	0.28341	0.14087	0.19298	0.05637	0.15770
ROBO1 (213194_at)	0.64385	0.33464	0.94521	0.30058	0.97416	0.96192	0.93502	0.38156
RUVBL1 (201614_s_at)	0.09171	0.13426	0.30094	0.12644	0.80613	0.40094	0.52515	0.20724
SELI (1555274_a_at)	0.90741	0.22106	0.29009	0.60373	0.94209	0.93167	0.65823	0.34818
SLC19A1 (211576_s_at)	0.09512	0.90216	0.00432	0.00057	0.18056	0.35714	0.02461	0.00782
SNX5 (222417_s_at)	0.70040	0.11769	0.46062	0.29169	0.09226	0.81737	0.23877	0.02373
STK6 (204092_s_at)	0.55632	0.02329	0.03490	0.01242	*0.00001*	0.00045	0.00027	0.00029
TAGLN2 (200916_at)	0.07612	0.84495	0.75233	0.62671	0.78643	0.50509	0.40106	0.06406
TBRG4 (220789_s_at)	0.77717	0.59167	0.20265	0.05069	0.04903	0.00952	0.13816	0.05361
TCOF1 (244686_at)	0.11548	0.01578	0.14696	0.08157	0.54797	0.34506	0.67664	0.05338
TMPO (203432_at)	0.50799	0.64414	0.57568	0.29611	0.71497	0.05132	0.24177	0.15550
TRIM33 (212435_at)	0.70040	0.77995	0.01189	0.02462	0.00211	0.00486	0.02634	0.00464
TRIP13 (204033_at)	0.67685	0.64014	0.03028	0.00260	*0.00001*	*0.00007*	*0.00003*	*0.00004*
UBE2I (213535_s_at)	0.13580	0.57378	0.83949	0.51089	0.24351	0.02849	0.25757	0.46483
UBE2R2 (226954_at)	0.63900	0.93765	0.32880	0.90665	0.04490	0.00849	0.54988	0.59005
WEE1 (212533_at)	0.02612	0.26059	0.78897	0.21217	0.75192	0.17999	0.04255	0.03471
YWHAZ (200638_s_at)	0.78535	0.48605	0.42516	0.94636	0.17487	0.62611	0.25915	0.21936



Online Supplementary Figure S1. Comparison of bone-related genes with imaging parameters. Labels on the y-axis are presented as the gene name followed by the probe number in parentheses. Points on the left side of the vertical gray line represent significant comparisons.



Online Supplementary Figure S2. Comparison of GEP-70 probes with imaging parameters. Labels on the y-axis are presented as the gene name followed by the probe number in parenthesis. Points on the left side of the vertical gray line represent significant comparisons.