

Supplementary Table S1. Differential gene expression.

A

Gene Symbol	Probeset	Exprs. BMPC	Δ MBC	Δ PPC	Δ MGUS	Δ MM	Δ HMCL	p-value MBC	p-value PPC	p-value MGUS	p-value MM	p-value HMCL
BMP6	206176_at	8.59	-5.25	-4.28	0.82	0.64	-1.92	<0.001	<0.001	0.37	0.37	0.001
ACVR1	203935_at	6.1	-0.96	0.51	0.38	1.2	0.42	0.29	0.62	0.63	0.03	0.62
ACVR2A	205327_s_at	7.8	-0.53	-0.57	0.33	0.12	-0.6	0.09	0.07	0.37	0.63	0.01
Gene Symbol	Probeset	Exprs. BMPC	Δ MBC	Δ PPC	Δ MGUS	Δ MM	Δ HMCL	p-value MBC	p-value PPC	p-value MGUS	p-value MM	p-value HMCL
SMAD1	210993_s_at	3.29	-0.26	-0.21	0.98	2.73	4.17	0.95	0.95	0.81	0.02	0.001
SMAD4	202527_s_at	4.41	-0.03	-0.3	-0.21	0.03	1.05	0.95	0.81	0.85	0.95	0.02
PTGS2	204748_at	5.7	-2.11	-2.21	2.59	1.76	-2.4	0.15	0.14	0.09	0.12	0.05

B

Gene Symbol	Probeset	Exprs. BMPC	Δ MBC	Δ PPC	Δ MGUS	Δ MM	Δ HMCL	p-value MBC	p-value PPC	p-value MGUS	p-value MM	p-value HMCL
BMP6	206176_at	8.47	-4.71	-3.35	1.24	1.26	-1.28	<0.001	0.001	0.27	0.07	0.11
BMPR2	225144_at	5.33	0.17	0.93	2.1	2.08	0.24	0.94	0.37	0.06	0.001	0.9
ACVR1	203935_at	6.83	-2.36	1.66	0.1	1.05	-0.1	0.002	0.07	0.94	0.07	0.94
Gene Symbol	Probeset	Exprs. BMPC	Δ MBC	Δ PPC	Δ MGUS	Δ MM	Δ HMCL	p-value MBC	p-value PPC	p-value MGUS	p-value MM	p-value HMCL
SMAD1	210993_s_at	3.38	0.1	-0.6	2.75	2.01	4.05	0.97	0.74	0.13	0.08	0.001
SMAD4	202527_s_at	5.44	-0.03	0.5	0.33	0.82	2.45	0.97	0.62	0.74	0.2	<0.001
SAMD5	225219_at	7.34	-0.73	0.76	0.63	1.49	1.61	0.35	0.35	0.42	0.003	0.004
PTGS2	204748_at	4.82	-1.65	-2.28	3.88	2.74	-1.85	0.39	0.28	0.05	0.04	0.24

C

Gene Symbol	Probeset	Exprs. ND-WBM	Δ MM-WBM	p-value MM-WBM
BMP6	206176_at	2.73	3.18	0.003
BMPR2	225144_at	3.86	1.36	0.01
ACVR2A	205327_s_at	3.07	1.11	0.01
ACVR1	203935_at	3.19	1.08	0.02

D

Gene Symbol	Probeset	Exprs. MGUS+MMI	Δ MMII+MMIII	p-value MMII+MMIII
BMPR2	225144_at	5.3	0.95	0.007
ACVR1	203935_at	6.53	0.9	0.007

Supplementary Table S1. Differential gene expression for comparison of the respective populations of Table 1. Differential gene expression as determined by EB-statistics using Benjamini-Hochberg correction for multiple testing for comparison of the respective populations of Table 1 for (A) Heidelberg/Montpellier-group 1 (HM1), (B) HM2, (C) whole bone marrow (WBM) and significant differential gene expression in early stage (MGUS/MMI) vs. advanced stage (MMII/MMIII) plasma cell dyscrasias. (D) Significant differences could only be found for HM1.