

Table S5: Pathway maps for Day 21

		BMP-2		TGF-β1		BMP-2 and TGF-β1	
Maps	Min (p-Value)	p-value	Genes from Active Data	p-value	Genes from Active Data	p-value	Genes from Active Data
Development_Regulation of epithelial-to-mesenchymal transition (EMT)	7.960E-12	3.099E-11	IL-1 beta, PDGF-R-beta, EGF, HGF, ACTA2, MMP-2, TGF-beta 3, TGF-beta 1, TNF-alpha	7.960E-12	IL-1 beta, PDGF-R-beta, EGF, ACTA2, MMP-2, WNT, TGF-beta 3, TGF-beta 1, TNF-alpha	1.283E-11	IL-1 beta, PDGF-R-beta, EGF, ACTA2, MMP-2, WNT, TGF-beta 3, TNF-alpha, TGF-beta 1
Transcription_Role of VDR in regulation of genes involved in osteoporosis	2.507E-08	2.507E-08	IL-1 beta, IFN-gamma, COL1A1, RUNX2, IGF-1, Osteocalcin, TNF-alpha	1.647E-04	IL-1 beta, IFN-gamma, IGF-1, TNF-alpha	9.938E-06	IL-1 beta, IFN-gamma, RUNX2, Osteocalcin, TNF-alpha
Transcription_Androgen Receptor nuclear signaling	4.528E-08	3.428E-06	EGF, MMP-2, IGF-1, TGF-beta 1, Beta-catenin	4.528E-08	EGF, MMP-2, IGF-1, WNT, TGF-beta 1, Beta-catenin	2.160E-06	EGF, MMP-2, WNT, TGF-beta 1, Beta-catenin
Development_TGF-beta-dependent induction of EMT via RhoA, PI3K and ILK.	5.189E-08	1.237E-07	ACTA2, SMURF1, TGF-beta 3, TGF-beta 1, Actin, Beta-catenin	5.189E-08	ACTA2, SMURF1, TGF-beta 3, TGF-beta 1, Actin, Beta-catenin	7.036E-08	ACTA2, SMURF1, TGF-beta 3, TGF-beta 1, Actin, Beta-catenin
Development_TGF-beta-dependent induction of EMT via MAPK	5.929E-08	4.270E-06	TGF-beta, MMP-2, FAK1, TGF-beta 3, TGF-beta 1	5.929E-08	ITGB1, TGF-beta, MMP-2, FAK1, TGF-beta 3, TGF-beta 1	8.038E-08	ITGB1, TGF-beta, MMP-2, FAK1, TGF-beta 3, TGF-beta 1
Some pathways of EMT in cancer cells	9.812E-08	2.331E-07	PDGF-R-beta, EGF, PDGF receptor, TGF-beta 1, TNF-alpha, Beta-catenin	9.812E-08	PDGF-R-beta, EGF, PDGF receptor, TGF-beta 1, TNF-alpha, Beta-catenin	1.329E-07	PDGF-R-beta, EGF, PDGF receptor, TNF-alpha, TGF-beta 1, Beta-catenin
Cell adhesion_Chemokines and adhesion	2.906E-07	1.272E-05	MMP-2, VEGFR-2, FAK1, CD44, Actin, Beta-catenin	2.906E-07	VEGF-A, MMP-2, VEGFR-2, FAK1, CD44, Actin, Beta-catenin	7.390E-06	VEGF-A, MMP-2, FAK1, CD44, Actin, Beta-catenin
Normal and pathological TGF-beta-mediated regulation of cell proliferation	3.405E-07	2.490E-05	PDGF-R-beta, PDGF receptor, TGF-beta 1, Beta-catenin	3.405E-07	PDGF-R-beta, PDGF receptor, TGF-beta 1, SMAD4, Beta-catenin	1.726E-05	PDGF-R-beta, PDGF receptor, TGF-beta 1, Beta-catenin
Development_TGF-beta-dependent induction of EMT via SMADs	4.626E-07	3.162E-05	TGF-beta, MMP-2, TGF-beta 3, TGF-beta 1	4.626E-07	TGF-beta, MMP-2, TGF-beta 3, TGF-beta 1,	2.193E-05	TGF-beta, MMP-2, TGF-beta 3, TGF-beta 1

					SMAD4		
Cytoskeleton remodeling_TGF, WNT and cytoskeletal remodeling	5.944E-07	2.775E-04	VEGFR-2, FAK1, TGF-beta 1, Actin, Beta-catenin	5.944E-07	VEGF-A, VEGFR-2, FAK1, WNT, TGF-beta 1, Actin, Beta-catenin	1.350E-05	VEGF-A, FAK1, WNT, TGF-beta 1, Actin, Beta-catenin