

**Table S6: Pathway maps for Day 36**

		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)	2.507E-16	2.377E-10	FGF2, PDGF-R-beta, HGF, ACTA2, ACTB, MMP-2, WNT, TNF-alpha, TGF-beta 1	2.507E-16	IL-1 beta, FGF2, PDGF-R-beta, EGF, HGF, ACTA2, Frizzled, MMP-2, NOTCH1 receptor, WNT, TGF-beta 3, TNF-alpha, TGF-beta 1	1.925E-09	FGF2, PDGF-R-beta, HGF, ACTA2, MMP-2, WNT, TGF-beta 3, TGF-beta 1
Development_TGF-beta-dependent induction of EMT via MAPK	6.054E-09	1.248E-05	ITGB1, TGF-beta, alpha-V/beta-1 integrin, MMP-2, TGF-beta 1	2.929E-08	ITGB1, TGF-beta, alpha-V/beta-1 integrin, MMP-2, FAK1, TGF-beta 3, TGF-beta 1	6.054E-09	ITGB1, TGF-beta, alpha-V/beta-1 integrin, MMP-2, FAK1, TGF-beta 3, TGF-beta 1
Transcription_Androgen Receptor nuclear signaling	2.137E-08	4.009E-07	IL-6, MMP-2, IGF-1, WNT, TGF-beta 1, Beta-catenin	2.137E-08	IL-6, EGF, Frizzled, MMP-2, IGF-1, WNT, TGF-beta 1	1.593E-07	IL-6, MMP-2, IGF-1, WNT, TGF-beta 1, Beta-catenin
Normal and pathological TGF-beta-mediated regulation of cell proliferation	2.280E-08	5.791E-08	FGF2, PDGF-R-beta, PDGF receptor, TGF-beta 1, Beta-catenin, ITGAV	2.910E-06	FGF2, PDGF-R-beta, PDGF receptor, TGF-beta 1, ITGAV	2.280E-08	FGF2, PDGF-R-beta, PDGF receptor, TGF-beta 1, Beta-catenin, ITGAV
Cell adhesion_Chemokines and adhesion	6.953E-08	2.363E-07	VEGF-A, Actin cytoskeletal, MMP-2, VEGFR-2, CD44, Actin, Beta-catenin, ITGAV	6.561E-05	VEGF-A, MMP-2, VEGFR-2, FAK1, Actin, ITGAV	6.953E-08	VEGF-A, MMP-2, VEGFR-2, FAK1, CD44, Actin, Beta-catenin, ITGAV
Development_TGF-beta-dependent induction of EMT via RhoA, PI3K and ILK.	1.825E-07	4.588E-07	ACTA2, SMURF1, ACTB, TGF-beta 1, Actin, Beta-catenin	1.567E-05	ACTA2, SMURF1, TGF-beta 3, TGF-beta 1, Actin	1.825E-07	ACTA2, SMURF1, TGF-beta 3, TGF-beta 1, Actin, Beta-catenin
Transcription_Role of VDR in regulation of genes involved in osteoporosis	1.883E-07	4.514E-05	COL1A1, IL-6, RUNX2, IGF-1, TNF-alpha	1.883E-07	IL-1 beta, IFN-gamma, COL1A1, IL-6, RUNX2, IGF-1, TNF-alpha	1.015E-06	IFN-gamma, COL1A1, IL-6, RUNX2, IGF-1, Osteocalcin
Immune response_MIF-mediated glucocorticoid regulation	3.425E-07	1.104E-05	IL-6, VCAM1, ICAM1, TNF-alpha	3.425E-07	IFN-gamma, IL-6, VCAM1, ICAM1, TNF-alpha	2.389E-04	IFN-gamma, IL-6, ICAM1
Development_Thrombospondin-1 signaling	4.074E-07	8.788E-07	Caspase-3, VEGF-A, FGF2, VEGFR-2, TGF-beta 1	1.238E-06	Caspase-3, VEGF-A, FGF2, VEGFR-2, TGF-beta 1	4.074E-07	Caspase-3, VEGF-A, FGF2, VEGFR-2, TGF-beta 1

Development_Notch Signaling Pathway	4.571E-07	3.201E-02	HDAC1, PCAF	4.571E-07	HDAC1, NOTCH1 (NICD), NOTCH1 (NEXT), NOTCH1 precursor, NOTCH1 receptor, PCAF	2.158E-01	HDAC1
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