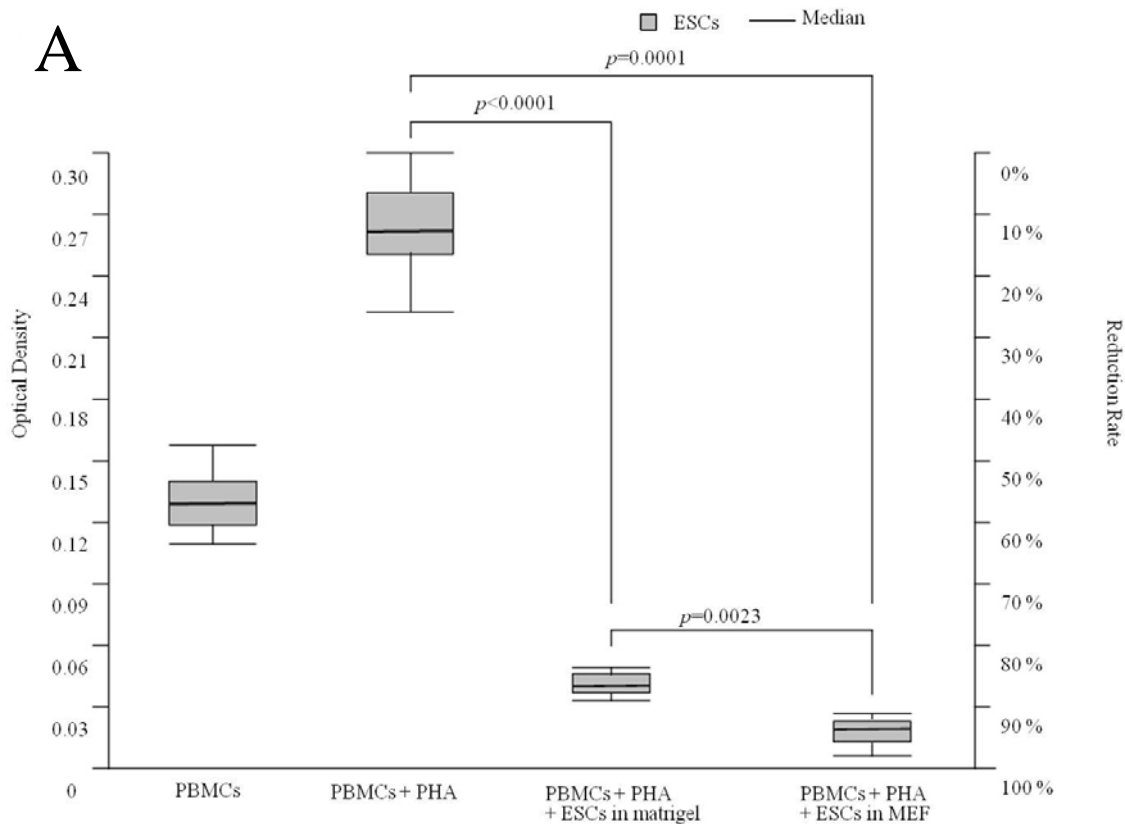
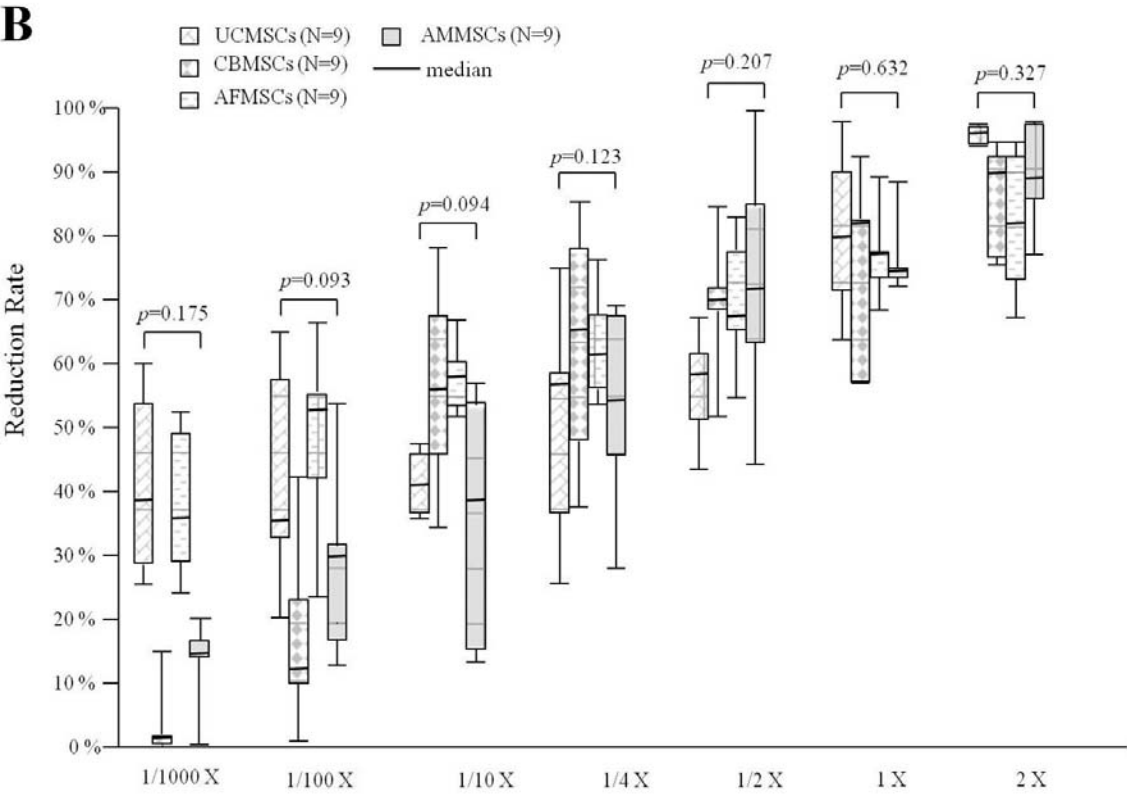
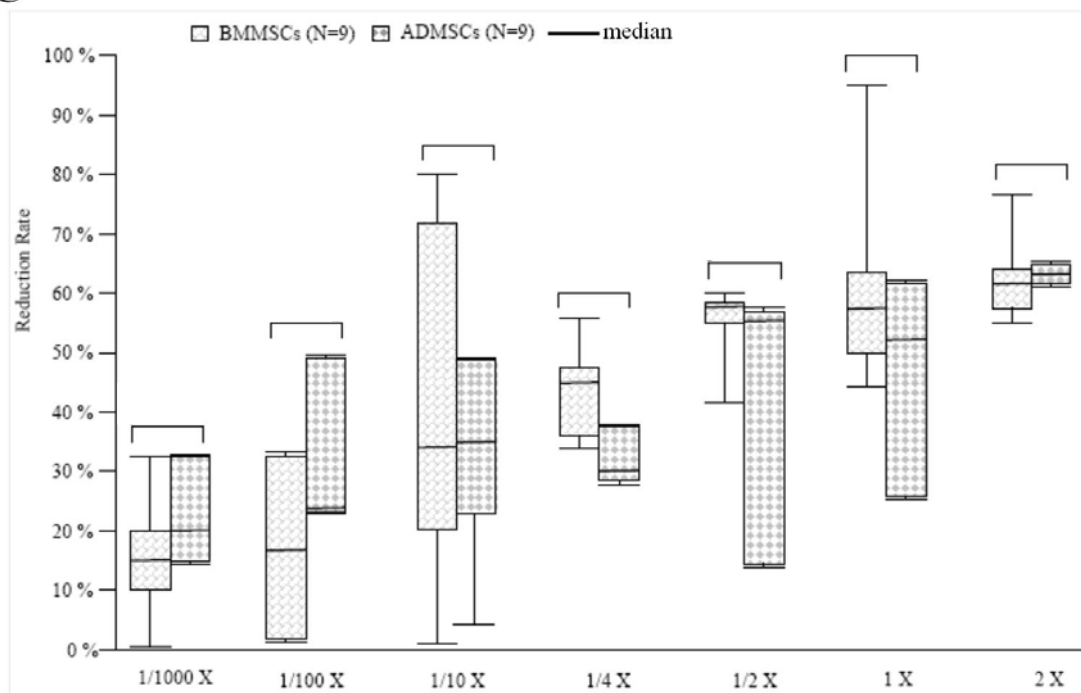


SDC, FIGURE 2. Suppressive effects on PBMCs of ESCs, fetal-type MSCs, and adult-type MSCs. (A) ESCs, whether previously cultured under feeder cell-free conditions (on Matrigel-coated plates) or with feeder cells, exhibited significant suppressive effects on PBMC proliferation. The ESCs previously cultured with feeder cells were observed to have significantly greater suppressive effects than those previously cultured under feeder cell-free conditions. *** $p<0.001$. (B) All 4 kinds of fetal-type MSCs were found to inhibit the proliferation of PBMCs in a dose-dependent manner. No significant differences were observed in the suppressive effects on PBMCs among the 4 kinds of fetal-type MSCs at varied dosages. (C) ADMSCs and BMMSCs both inhibited PBMC proliferation in a dose-dependent manner. There were no significant differences for inhibition of PBMC proliferation between ADMSCs and BMMSCs at varied dosages.





C



SUPPLEMENTAL DIGITAL CONTENT – TP202670

SDC, TABLE 1. Of 31,099 microarray genes analyzed, (A) 260 up-regulation genes (>three-fold change) and (B) 699 down-regulation genes (>three-fold change) were found among ESCs, fetal-type MSCs and adult-type MSCs.

SDC, TABLE 1 (A) 260 up-regulation genes (>three-fold)

F11R	RAB11FIP1	KHDRBS3	truncated at 128 characters>	CD84	GUCA1A	GNAI4	KLF5
CD24	GPR37	DCX	ABHD9	ABHD9	SPINT1	DHCR24	SLC25A13
CD24	DEFA4	TFAP2C	HDAC9	DLKI	KCNH1	IDO1	ZNF232
CDH1	GPC4	GATA3	NPPB	D4S234E	TNNT1	CCR9	CXCL14
AXL	ZNF33B	GPC4	CCND2	---	SLC29A1	RASL11B	SEPHS1
CD24	RABL5	GYG2	GARNL4	TIMP4	MREG	ACTC1	ARID3A
GATM	POU5F1 ///	CD24	FABP4	VASH2	GART	RARRES2	KLAA1598
UCP2	POU5FIP1 ///	FZD5	IMPA2	PDPN	PLS1	ASNS	CAI1
CADM1	POU5FIP3 ///	SERPINE9	SALL2	PCDH8	NBLA00301	APOE	SLC5A6
DBR1	POU5FIP4	TOX3	GLDC	MYCL1	GCNT2	SLC16A1	IPW
TPD52	TAF1	PROZ	GATM	CUGBP2	SERPINE4	RAD51	AP1G2
PBXIP1	CXCL5	SCG3	HHEPL2	PPOX	GPRC5B	CORO2A	CDC6
TPD52	MMP23A ///	TOX3	CNTNAP2	MAP7	CTSL2	ORC1L	NES
L1CAM	MMP23B	UPP1	NEBL	PKD3	ARID3B	FGFR2	PDLIM1
TUBB2B	SFN	POU5FIP3	OLFM1	KRT7	SLC2A3	MRS2	EGLN3
NMT1	FGF13	PKNOX1	---	HIC2	TMEM97	DCLK1	DTNA
CD24	SPG20	LCK	CRMP1	UTF1	SEMA4D	FKBP1B	RAMP2
TAC1	CYP26A1	OCN	SFN	KCTD14	VSNL1	CDC6	MAP7
EDNRB	LEFTY1	EDNRB	ETV4	STX3	PTPRZ1	CLDN10	RFWD3
TDGF1 ///	EPCAM	---	---	MRS2	CDT1	PFAS	SLC39A8
TDGF3	SCNN1A	IL21R	HIC2	C1orf106	TOX3	SEPHS1	TMEFF1
ANXA3	SNX10	CD24	SOX3	STX3	GABRG2	F11R	SNCA
D8G2	ADD2	HAND2	PCYT1B	AP1M2	CALB1	DCHS1	SLC9A3R1
GUCA1A	GATA3	QPRT	NELL2	ICA1	NSUN6	RABGAP1L	CHRN3
GPRC5C	VSNL1	PCDHA1 ///	TMEM97	PLAC8	PAIP2B	MYCN	CAFN6
ARNTL	FAM65B	PCDHA10 ///	CXADR	TBC1D30	40792	LECT1	EXPH5
RAB11B	SLC6A15	PCDHA11 ///	CKB	KIF5C	GABRB3	E2F5	BCKDHB
CGB /// CGB5 ///	CRABP1	PCDHA12 ///	RBM35A	MAP3K9	FAM149A	NTS	POLD1
CGB7 /// CGB8	NEFL	PCDHA13 ///	RBM47	LOC100134089	SLC16A1	PHC1 /// PHC1B	WVVOX
NLGN4X	LHX1	PCDHA2 ///	ZNF589	/// PPP2R3B	LITAF	TM7SF2	
PDPN	CALB1	PCDHA3 ///	KRT8	GYG2	PTBP2	MBD2	
SCYL3	LITD1	PCDHA4 ///	CYCS ///	DLGAP1	ZNF3	PPP2R1B	
CUGBP2	FOXO1	PCDHA5 ///	CYCSP52	CD55	AASS	GNAS	
TPD52	SPON1	PCDHA6 ///	---	OGFRL1	CLDN7	DIAPH2	
DNMT3B	RAB38	PCDHA7 ///	DPYSL4	LATS1	CDH3	SH3GL2	
TBC1D22A	GPR143	PCD...<Preview	CXCR7	NFATC3	KLF5	CNTNAP2	

SDC, TABLE 1(B) 699 down-regulation genes (>three-fold)

—	—	PCDH8A3	///	SYN1	OR1B1	—	LRRC14	CRHR5	NR1D2	IL6ST	RHAG	CACNB3	CCDC38	TM4SF1	///
CRHR2	NR2F2	PCDH8A4	///	MTN4	CRF2	CDHL1	ENG	PDC	TIGD1L	—	ADAM12	PP1R3A	—	CDYL	LOC10012785
—	CSN3	PCDH8A5	///	WCP2	TL2	DNABP4	TRBP1	KOYV1	PR418B	PTPH12	LOC10013366	PLA2G3A	IFNA10	HH	3
CPH2	PLISA	PCDH8A6	///	ANL1	CYP2A1	—	CPB2	IRF5C	TSPR2	STEAP4	2	RPS4V1	ACVRL3	BGN	LOC10013095
TTG3	DYPD	PCDH8A7	///	NTRK2	ADAM10BCL	NRN1L	GABRA6	CD4	SSX1	SLC25A4	—	EDA	AGBL3	NSTDL	2
EP58	ITFG2	PCDH8...	—	ANGPTL	CSACAM7	—	ARL14	SERPIND1	KIAA1226	///	—	ABL2	COL5A1	GBPL	FN1
GPR17	ACR1	PCDH8...	<Preview	UMDL1	CTB5	CYP1B1	ILRN	PLSCR4	NBPFL1	///	B3R3	TM6B2	LOC10012738	ADAM7	5
DSCL	LOC648528	truncated at	COL14	///	IFNA5	SOC5	INHBA	—	NBPFL1	///	CASP4	PLAGL1	8	///	NTS1
CSGALNACT1	C1orf81	128	COL15	—	—	—	ILRN	PLSCR4	NBPFL1	///	ENG	LOC390012	SLC44A	ILA	PTN2
—	M14A6A	characters	OR1A2	CALML4	—	SCARA3	TTG3	MYO22	NBPFL1	///	RAGE	ARR	SULT2A1	MLANA	LOC441896
H3AFY	—	ITRP1	COL1A4	—	CRYBA1	CNRL	GULP1	IL33	NBPFL1	///	RASDA3	NAGLU	UNC53A	PTX3	LOC728351
ITK	MEID1A	CRML	—	LOC84213	EDNRA	ZNF42	ANKH	—	NBPFL2	///	HOXB2	GRM7	DCN	COL1A1	LOC641300
TPO2	—	PCDH8A10	///	ZNF355	ARHGAP25	PDE5DIP	RUT6	CSACAM8	NBPFL1	///	NTN1	—	PDGFRA	KIAA1055	///
COL5A1	NTN9	PCDH8A10	///	UBQL	CLDOL1L5	BTB3	TSHR	NPA52	NBPFL1	///	CAL2	—	ADAM2	C4orf34	MGP
SCUB2	SOX5	PCDH8A11	///	PCDH8A12	///	COP22	GRM7	GPRL	—	RP11-342.2	ARHGAP25	JUNB	KCNK2	—	MEOX2
SLC26A3	ADAM19	PCDH8A12	///	PCDH8G3	IFR44	GLRA3	ALDH2B2	TM63	RBPMS	DAB2	—	NR4A2	UPAR	—	RGS12
GR1	ITGA10	PCDH8A2	///	SIDT1	BSM1	C7orf64	DNABP4	CDHL1	NR2F2	—	—	PRF1	LOC10013023	—	truncated at
BHLHE40	CUBLL3	PCDH8A3	///	KCNK2	PAM159A	CRYBA2	NUGB2	FRHFD4	SPOCK3	SEH43C	PAX3	UGT2A1	///	3	///
KULH5	PTPRK2	PCDH8A4	///	DCC10	PAM159B	SLC4A3	ASH	CLL2	MURF3	—	PAX4	UGT2A2	LOC393864	GA2	characters
CFAR	ADAM12	PCDH8A5	///	CYP3A5	SOX9	MBNL1	BCL2A1	COL15A	PCBC	—	—	ALP	—	SPATA1	DCN
CHODL	AUB	PCDH8A6	///	ZNF1010	ESAL	TAT	—	SON11A	WNT5A	GUL2	DAPP1	—	ATXN3	—	DCN
MMPL2	DAZL	///	DAZ2	PCDH8A7	///	GNG11	LOC11145	GPR18	AGTR2	XVL8	HPSB	///	LOC10013075	—	TRAF3
CDP51	///	DAZ3	///	PCDH8...	PLD2	IL6ST	MS4A2	IFIL6	HOKD3	LOC10013389	H6F	///	LY96	TRAF1	///
GAGEB1	///	DAZ4	///	PCDH8...	LOC11	PLA2R1	GPR22	POSTN	SYN1	5	MYH11	LOC300052	GSPC	TRAV20	///
GAGEB2	///	LOC732147	truncated at	—	SNED1	DAB1	RVO3	IL7	ALDH6A1	ESTAL	///	—	TRD	DDX3V	—
GAGEB3	///	ZNF1000	128	DAB2	VN1L1	MDPC	PCDZ7	TAS2R3	P8P9	CTNNA3	LOC39992	H6D	///	ATG3	CYP4B1
GAGEB4	///	VCAN	characters	SPIT2	RATF1	CKC12	FAM7C	—	R51	CYP4F3	///	///	LOC10013075	—	PRF1
GAGEB5	///	ALLC	ITGA4	VGSL3	BGN	P2RY10	IGHM1	—	IL25	CYP4F3	LOC843892	2	///	NRPL	RGS4
GAGEB6	///	SLC6A20	MORC1	APOLD1	PCDH8A1	///	PCSK2	OIC1L	ILF1	ZEB1	///	LOC727722	BTN3A3	IL8	LOC10013075
GAGEB7	///	AIM1L	CRY3B	RPL35	PCDH8A10	///	RNF5	DARC	PDE5DIP	—	PRKDL	LOC846527	COL5A1	P9FL4	CLC1orf148
GAGEB8	///	CYP3A43	HOKB13	GPR38	PCDH8A11	///	RNF5	LAL1	KRT20	BBS3	IGJ	—	PRF1	LOC846527	LUM
GAGEB9	///	RAB7A	EBF3P1	HOKD10	PCDH8A12	///	CLTC	KRTAP5-8	BBS3	IGJ	—	PRF1	KIAA1139	VIP	BPLAY
GAGEH1	LG5N	BOK	RNF17	PCDH8A2	///	ZNF674	ACF4	IAPP	—	SMR3A	///	NUP54	IFIL6	SLC14A1	RPFL1
GAGEH2	///	KCNJL	TGFB2	—	PCDH8A3	///	ASPH	WNT5A	INRPL	—	SMR3B	SPY2	SMTBL	PRKX1	—
GAGEH3	///	YBKL1	POU1F1	SNPO	PCDH8A4	///	—	LOC10013441	TSPM1	—	CAL2	—	MYP	—	COL3A1
GAGEH4	///	YBKL2	UPSL	CDC102B	PCDH8A5	///	CLU	0	///	PCDH8A1	MYH4	ABHD6	—	NTRK1	—
truncated at	MSMB	SNED1	GUCY1A2	PCDH8A6	///	IFNA4	FLJ21511	PTPN20A	///	—	LOC10013022	AVPR1A	SRP72	CYP3A5	CLIC1orf7
128	PBOV1	BM1U1	COLBCL1	PCDH8A7	///	GPR	UF	PTPN20B	—	CAL2	4	///	UTY	CXorf57	FBM1
characters	—	TPPI	SLC13A1	—	PCDH8...	CDON2C	AMYL1A	///	—	C6orf103	FOH3	BNP6P	—	RAG2	SIGLEC8
COL1A1	—	PRDX2	ZNF142	—	PCDH8...	PTPRC	AMYL1B	///	—	SOC5	OPR11	OCPL	—	ANPEP	LOC730092
CAL2	ADRA1A	SUFL	CSHL1	truncated at	HEG7	—	AMYL1C	///	IGH5L	ADH15	ILF2	LOC57399	ATP2B3	OCOR1	KRT12
MARF1	RIIA1	STATH	COLL1A	128	COL5A1	—	AMYL1D	///	TTG3	NDH5220	WNT1L	LW	PRF1	HSD1B1	DCN
ZNF1	P5D3	RHOBTB3	KIAA0937	characters	SERPIN13	—	AMYL1E	///	RIN2	NR4A2	FGI2	NR2F1	ITL6	ANKA10	LOC644937
ONGB1	RGS1	CYP2C3	FLJ2	—	SCGB1D2	TEICL	—	COX7A1	BTN3A2	///	EDA	MYO10C3	ACOXL	ADP	RUNX1
SMARCA2	NAV3	RP1L	LOC727957	—	—	—	IL5	—	BTN3A3	GULB	BTN3A3	BTN3A3	BTN3A3	BTN3A3	BTN3A3
GAD2	GRIN2A	138121.1	///	PHF14	—	CNKSR2	—	CLC1orf105	—	PLN	SLC16A4	PLAGL1	CD46	2	///
BNTPD4	AFM	LDX	LOC725901	FZD1	TNP2	—	—	—	EDNRA	SLC25A3L	BDMF	HLP	LOC350293	HLA-DQB1	LOC3A1
LOXL2	DKFZP564C13	EP51512	///	MYB	KCTD12	—	NPL	FN1	SPR1A	LOCK	BGN	VCAM1	///	OR7B7P	—
DKK1	6	BH4A3	LOC725953	—	—	—	HP44	IGFBP7	—	—	—	—	—	—	—
APDC3	SEH43C	LOC4859	///	ZNF634	EPB2	—	RAB27B	TRAF3	///	—	PDE10A	SPOCK1	HJR	DLL1	ADAMTS10
TGFB1	TRP1	CSHL1	PTGFB	RAB27B	EPB2	—	RAB27B	TRAF3	///	—	PAR5	DRL	H6FL	ADP9	CKOR1
IL17A	GPID1	DOPB2	NBP	C2orf117	—	—	—	—	—	—	—	—	—	—	—
GUR3	PCDH8A1	///	SENL1	RBP1	BRP2	MSR1	TRD8	C6orf54	ZEB1	PRIS7	COL5A2	—	—	—	—
LTBR	PCDH8A10	///	IFNA17	BTN3A3	SYN1	NR2F2	GR43	IFNA5	MBD2	COL4A3	MBNL1	XIST	—	TM4SF1	AP0BEC3B
MLF1	PCDH8A11	///	CCDC32	KIAA1599	IL6ST	ANGPTL3	PKR34	STAP1	ESR1	CLEC4D	FBM1	TSPY5	—	NR4A2	FAP
HLA-DQA	PCDH8A12	///	LOC441258	SERPIN13	TTG3	—	KCN13	LOC293079	SVZB	FUJ1363	MTN17	TM4SF1	—	IL1R1	—
ARH	PCDH8A2	///	DLCL	—	—	—	SNX13	—	IL6ST	WISP3	AP0B3	ACE	ITGBL1	COL3	NCG_201955